

Antibodies Catalog



Neuroscience Research

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Who We Are

Founder

EnCor Biotechnology Inc. was founded by Dr. Gerry Shaw, who was born in Nottingham, England. He obtained his B.Sc. degree from University College London, and a Ph.D. degree from King's College London. He later was employed at the Max Planck Institute for Biophysical Chemistry in Germany from 1980 to 1986. He then worked as a professor of the department of Neuroscience at the University of Florida, Gainesville, USA until 2013. EnCor was established in December 1999 and has been increasingly profitable every year since 2004.

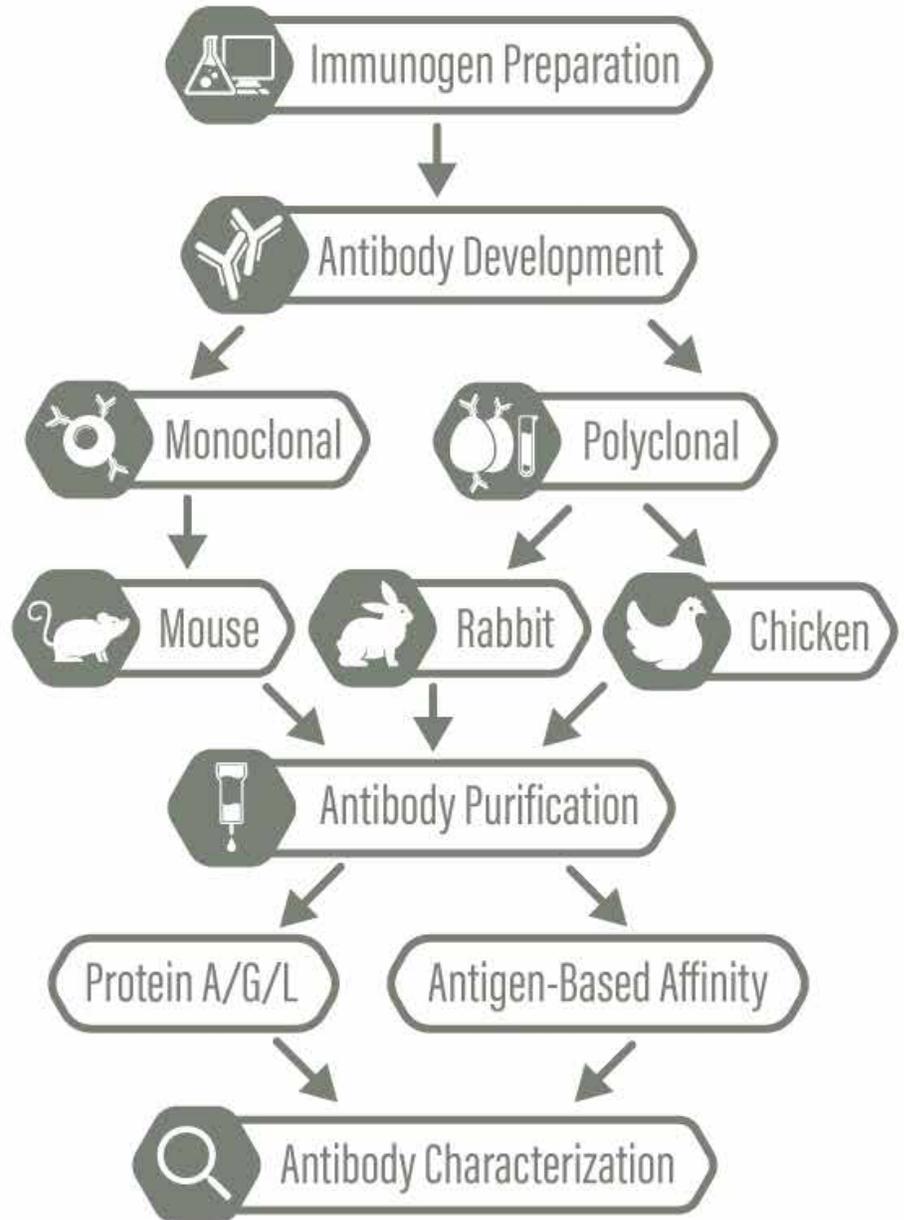
EnCor's Specializations

EnCor Biotechnology Inc. specializes in the production of high quality monoclonal and polyclonal antibodies against proteins of particular interest. The company carries out the complete process of manufacturing, from initial peptide or recombinant protein synthesis/expression, to immunogen-affinity purification of polyclonal antibodies. Almost every monoclonal antibody that EnCor sells has been produced in Gainesville, Florida. Each batch of every antibody has been rigorously validated in-house by EnCor's team of scientists.

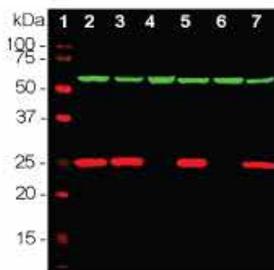
We generate, characterize, and validate highly specific and potent antibodies that will work in your experiments. We sell excellent products at appealing prices!



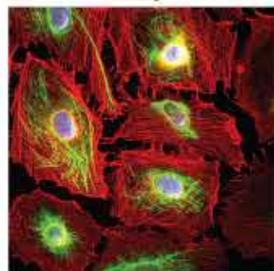
Antibodies



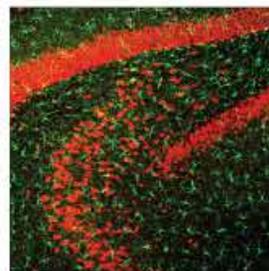
WB: Western Blot



ICC: Immunocytochemistry



IF: Immunofluorescence



E: ELISA



The *Best* Possible Buying Experience!

100% Satisfaction Guarantee

EnCor has supplied research laboratories and life sciences companies with the highest quality monoclonal and polyclonal antibodies for more than 15 years. Since almost all our products are made in-house, we are able to provide not only competitive pricing but also unrivaled, in-depth technical assistance. Our emphasis is on exceptional quality, specificity, potency, and reproducibility. Your satisfaction is our number one priority. If any product does not perform as indicated on its Product Data Sheet, we will either immediately replace it, or credit you the original purchase price.

We always appreciate our customers' honest feedback. Feel free to email us at admin@encorbio.com with your questions, concerns, or comments.

Have you published with an EnCor product?

Submit a publication details at admin@encorbio.com and you will be eligible to receive a free shipping or \$50 credit for you next purchase!

Have you tried an EnCor antibody in an unvalidated species or application? If you've successfully used one of our products for a species or application we have not listed on the Product Data Sheet, please let us know by submitting an image and details to admin@encorbio.com, and you will be eligible to receive a free shipping or \$50 credit for you next purchase!

Placing an order

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Shipping

For US orders, most products are in stock and available for next-day delivery. Delivery times and shipping charges for orders processed outside the US vary. If you would like to inquire about processing and shipping time, please contact customer service at (352) 372-7022 or admin@encorbio.com.

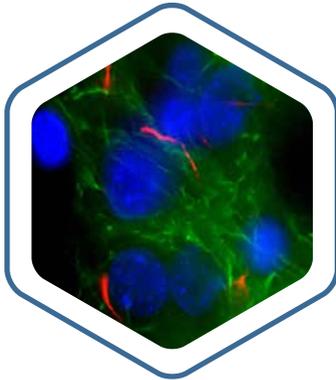
Images

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Most Popular Products

EnCor Biotechnology Inc. grew out of research in the general areas of neuroscience and cell biology. We found that antibodies which can be used as standard lab reagents to identify cell types, developmental stages, cell structures or pathological alterations, were particular valuable and marketable. As a result, our focus is on neurofilament proteins, MAP2, GFAP, UCHL1, c-FOS, FOX3/NeuN proteins among many others. With recent revolutionary discoveries in the field of CRISPR, we offer a number of CAS9 antibodies, useful markers to verify expressions of *S.pyogenes* or *S.aureus* CAS9. Our popular antibodies against fluorescence proteins - mCherry and GFP - are highly requested products.

Adenylate cyclases are enzymes which interact with and are activated by the GTP bound α -subunits of trimeric G-proteins and are responsible for the production of the important "second messenger" signalling molecule cyclic-AMP. There are several different adenylate cyclase genes which produce distinct proteins with different distributions in cells and tissues. The type III adenylate cyclase enzyme is specifically localized in the membranes surrounding neuronal cilia, and as a result our antibodies are excellent markers of neuronal cilia in the brain and in cell culture. Neuronal cilia express a variety of G-protein coupled and other types of receptors and as a result modulate several important signalling pathways.



Mouse mAb to Adenylate Cyclase III

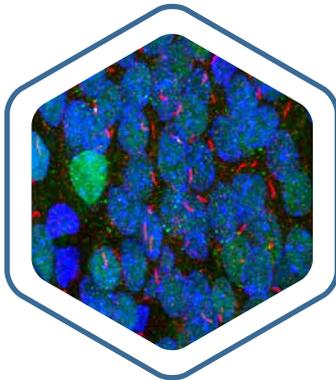
Cat# MCA-1A12

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ADCY3	AB_2744501	C-terminal peptide of rat ACIII, PAAFPNGSSVTLPH-QVVDNP	IgG1	~120kDa	IF/ICC & IHC: 1:1,000	Rt, Ms

Rat cortical section stained with mouse mAb to ACIII, MCA-1A12, in red, and costained with chicken pAb to tyrosine hydroxylase, CPCA-TH, in green. The blue is Hoechst staining of nuclear DNA.

Amount	Price
50 μ L	\$120
100 μ L	\$200
500 μ L	\$800

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3



Rabbit pAb to Adenylate Cyclase III

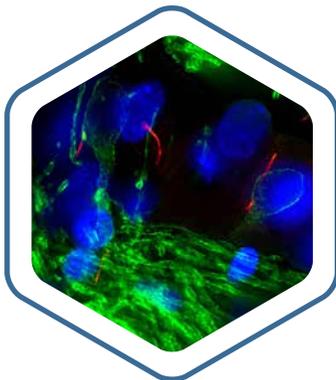
Cat# RPCA-ACIII

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ADCY3	AB_2572219	C-terminal peptide of rat ACIII, PAAFPNGSSVTLPH-QVVDNP	IgG	~120kDa	IF/ICC & IHC: 1:10,000	Hu, Rt, Ms

Rat cortex section stained with rabbit pAb to adenylate cyclase III, RPCA-ACIII, in red, and costained with mouse mAb to MeCP2, MCA-4F11, in green. The blue is DAPI staining of nuclear DNA.

Amount	Price
50 μ L	\$150
100 μ L	\$250
500 μ L	\$1,000

Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3



Chicken pAb to Adenylate Cyclase III

Cat# CPCA-ACIII

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ADCY3	AB_2744500	C-terminal peptide of rat ACIII, PAAFPNGSSVTLPH-QVVDNP	IgY	~120kDa	IF/ICC & IHC: 1:3,000	Rt, Ms

Rat brain section stained with chicken pAb to ACIII, CPCA-ACIII, in red, and costained with mouse mAb to CNP, MCA-1H10, in green. The blue is Hoechst staining of nuclear DNA.

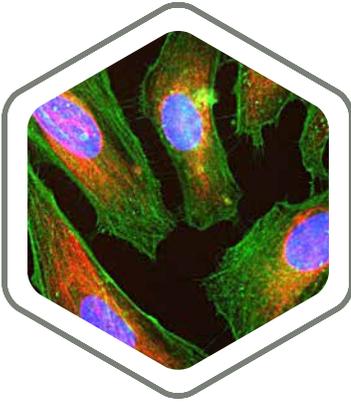
Amount	Price
50 μ L	\$150
100 μ L	\$250
500 μ L	\$1,000

Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

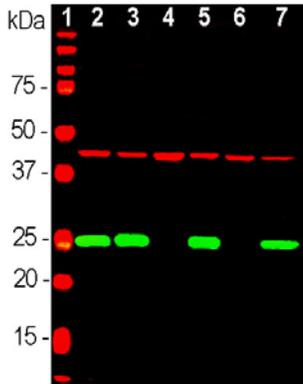
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Abbreviation Key:
 mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Actin



HeLa cell culture stained with mouse mAb to actin, MCA-5J11, in green, and costained with chicken pAb to vimentin, CPCA-VIM in red. The blue is Hoechst staining of nuclear DNA.



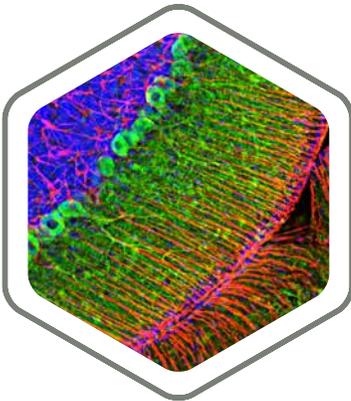
Mouse mAb to Actin

Cat# MCA-5J11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ACT	AB_2572218	Actin preparation from bovine brain	IgG1	42kDa	WB: 1:1,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co, Pi, Ho, Mo, Do

Western blot analysis of tissue and cell lysates using mouse mAb to actin, MCA-5J11, in red. [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa and [7] SH-SY5Y cells. The blot was simultaneously probed with chicken pAb to UCHL-1, CPCA-UCHL1, a marker of neuronal lineage cells, in green.

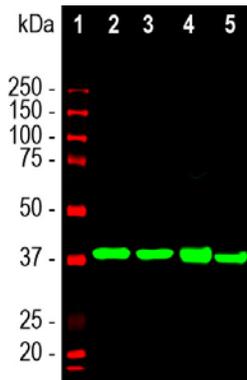
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Rat cerebellum section stained with mouse mAb to aldolase C, MCA-4A9, in green, and costained with rabbit pAb to GFAP, RPCA-GFAP, in red. Blue is Hoechst staining of nuclear DNA.

Aldolase C

Aldolases are important glycolytic cytosolic enzymes, and three aldolase isozymes are found in mammals. These are aldolases A, B, and C, each encoded by a separate gene. Aldolase A is mostly expressed in muscle and aldolase B is a liver-specific enzyme. In the adult, aldolase C is the brain-specific isozyme expressed in astrocytes and in a few classes of neurons, notably Purkinje cells. The MCA-4A9 antibody is specific for aldolase C and does not react with aldolase A or B. MCA-4A9 antibody works well on WB detecting a single ~40kDa band as expected, and also works in IF/ICC.



Mouse mAb to Aldolase C

Cat# MCA-4A9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ALDOC	AB_2571880	N-terminal sequence MPHSYPALSAEQK- KELSDIA	IgG1	40kDa	WB: 1:2,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of tissue lysates using mouse mAb to aldolase C, MCA-4A9, dilution 1:2,000 in green: [1] protein standard (in red), [2] rat brain, [3] mouse brain, [4] cow cerebellum and [5] pig hippocampus. The single band at about 40kDa corresponds to the aldolase C protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

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Abbreviation Key:

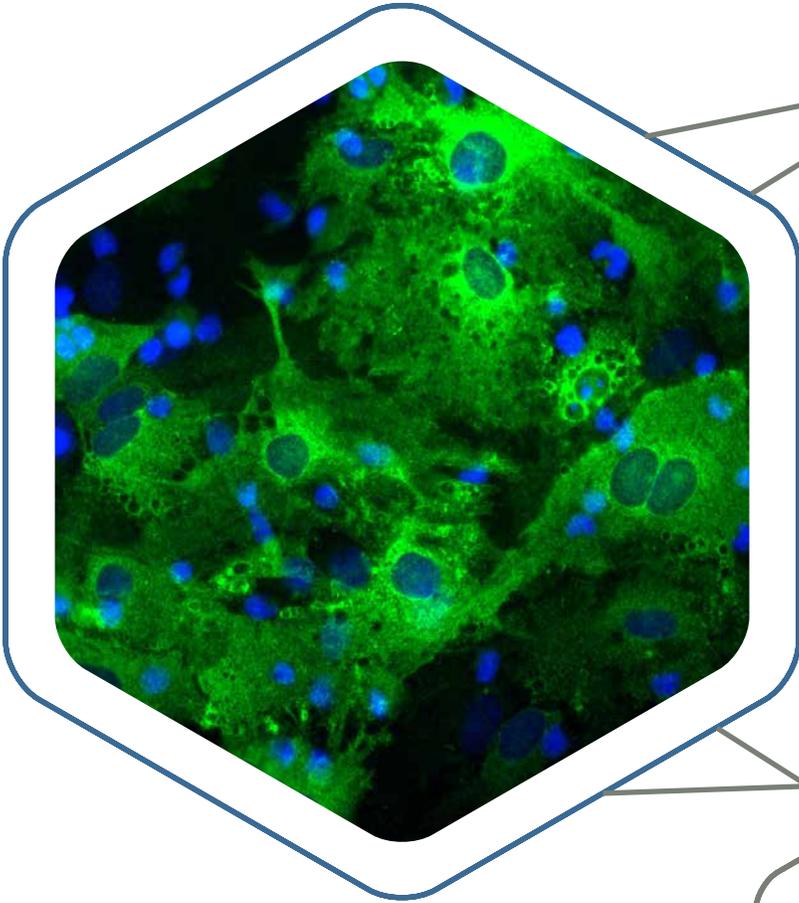
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

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ALDH1L1

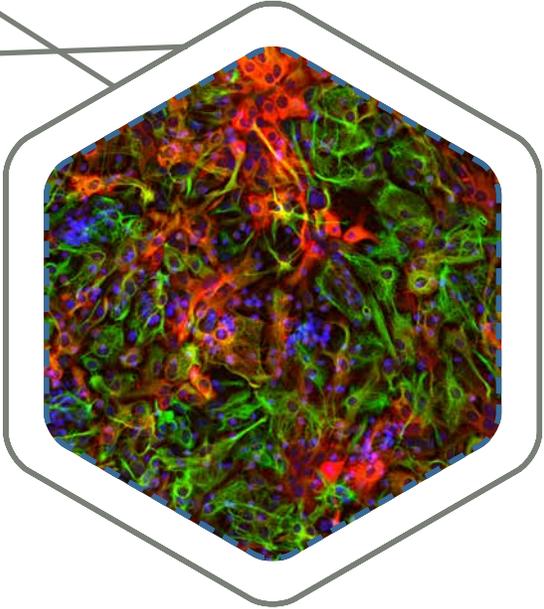
Aldehyde dehydrogenase family 1, member 1

Rat cortical neuron-glia cell culture stained with rabbit pAb to ALDH1L1, MCA-4A12 in green. The blue is Hoechst staining of nuclear DNA.



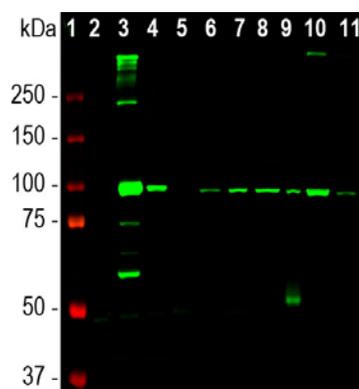
Aldehyde dehydrogenase family 1, member 1 (ALDH1L1) belongs to the large group of cytoplasmic enzymes that catalyze oxidation (dehydrogenation) of aldehydes. ALDH1L1 expression is tissue-specific with high levels in the liver. In the CNS ALDH1L1 is specifically expressed in astrocytes, so antibodies to this protein are useful to identify these important cells. In addition, loss of function or expression of ALDH1L1 is associated with decreased apoptosis, increased cell motility, and cancer progression, suggesting its role as a biomarker and a target in cancer therapy. ALDH1L1 antibodies work well on WB and IF/ICC, where they give a more accurate view of astrocyte structure than GFAP antibody.

Rat cortical neuron-glia culture stained with rabbit pAb to ALDH1L1, RPCA-ALDH1L in red, and costained with chicken pAb to GFAP, CPCA-GFAP in green. The blue is Hoechst staining of nuclear DNA.



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Abbreviation Key:
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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



Mouse mAb ALDH1L1

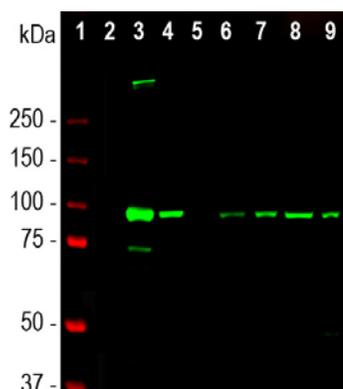
Cat# MCA-2E7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ALDH1L1	AB_2572220	Amino acids 402-902 of human ALDH1L1 protein	IgG1	100kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of different tissue and cell lysates using mouse mAb to ALDH1L1, MCA-2E7, dilution 1:5,000 in green: [1] protein standard (red), rat tissue lysates: [2] heart, [3] liver, [4] kidney, [5] lung, [6] brain, and [7] spinal cord; mouse tissue lysates: [8] brain, and [9] spinal cord; cell lysates: [10] NIH-3T3, and [11] HEK293. The band at 100kDa mark corresponds to ALDH1L1 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Mouse mAb ALDH1L1

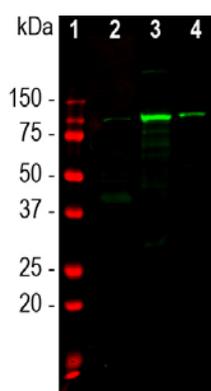
Cat# MCA-4A12

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ALDH1L1	AB_2572221	Amino acids of 1-401 of human ALDH1L1 protein	IgG2b	100kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of rat and mouse different tissue lysates using mouse mAb to ALDH1L1, MCA-4A12, dilution 1:5,000 in green: [1] protein standard (red), rat tissue lysates: [2] heart, [3] liver, [4] kidney, [5] lung, [6] brain and [7] spinal cord; mouse tissue lysates: [8] brain, and [9] spinal cord. The band at 100kDa mark corresponds to ALDH1L1 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Rabbit pAb to ALDH1L1

Cat# RPCA-ALDH1L1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ALDH1L1	AB_2572222	Full-length human recombinant protein	IgG	100kDa	WB: 1:2,000 IF/IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates using rabbit pAb to ALDH1L1, RPCA-ALDH1L1, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat liver, and [4] rat kidney. Single band at 100kDa mark corresponds to ALDH1L1 protein.

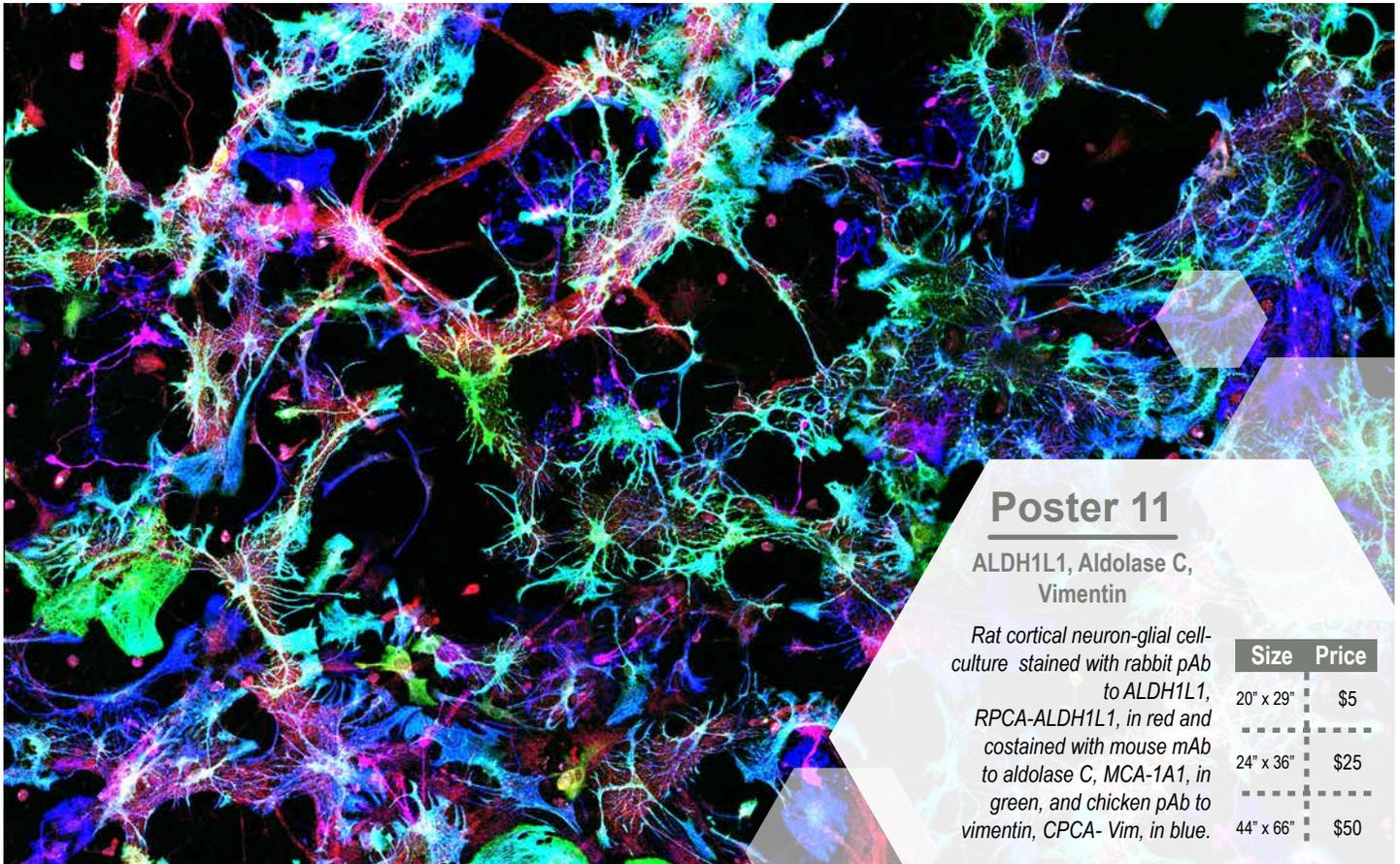
Serum + 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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Abbreviation Key:

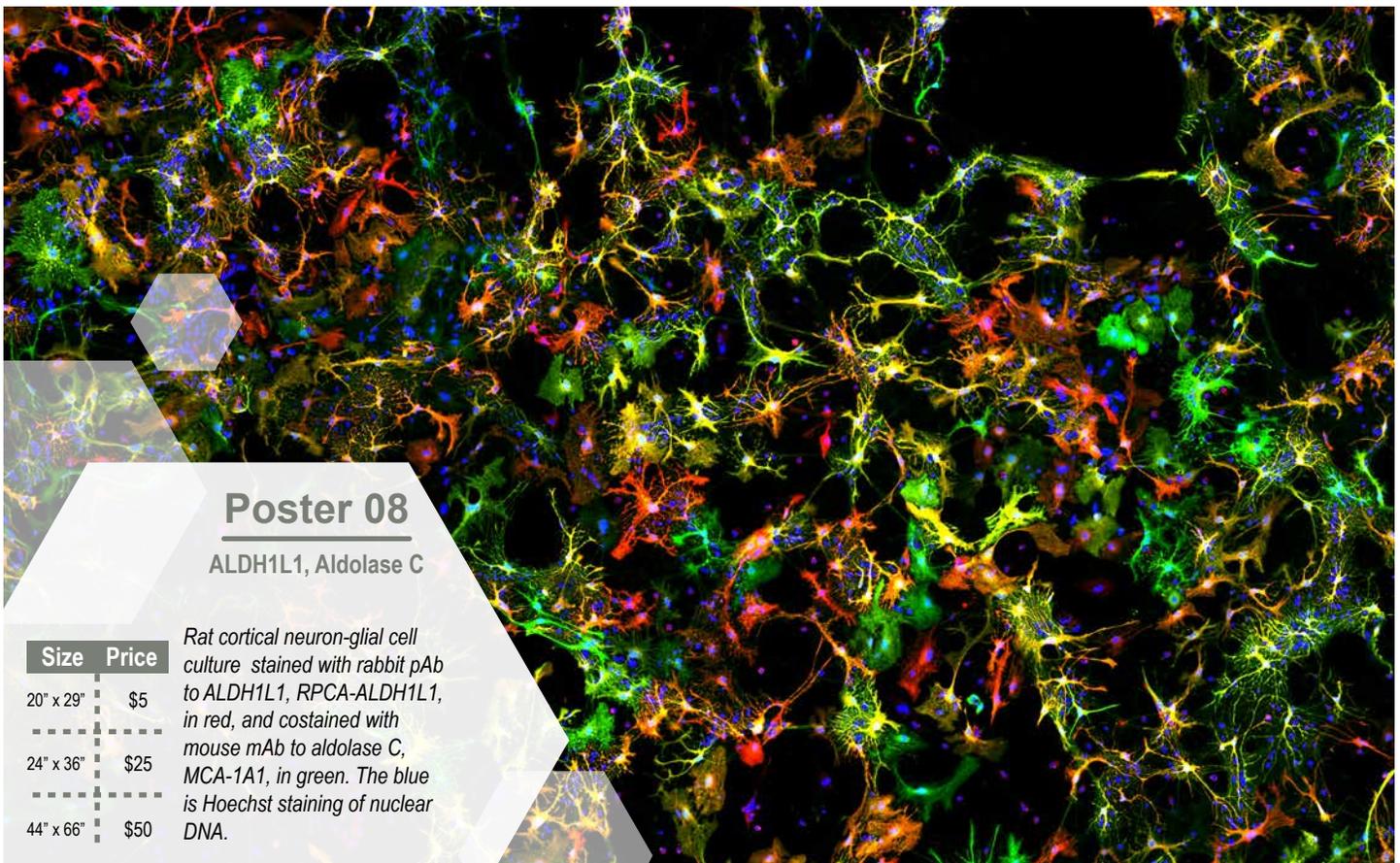
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



Poster 11
ALDH1L1, Aldolase C,
Vimentin

Rat cortical neuron-glia cell-culture stained with rabbit pAb to ALDH1L1, RPCA-ALDH1L1, in red and costained with mouse mAb to aldolase C, MCA-1A1, in green, and chicken pAb to vimentin, CPCA- Vim, in blue.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

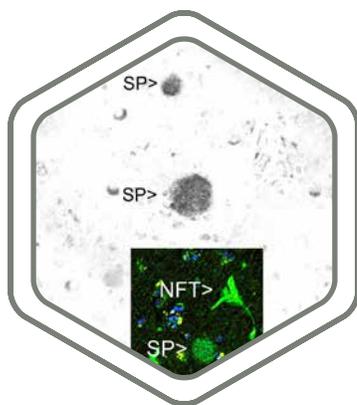


Poster 08
ALDH1L1, Aldolase C

Rat cortical neuron-glia cell culture stained with rabbit pAb to ALDH1L1, RPCA-ALDH1L1, in red, and costained with mouse mAb to aldolase C, MCA-1A1, in green. The blue is Hoechst staining of nuclear DNA.

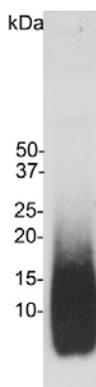
Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

Amyloid A β



Cerebral cortex from patient with Alzheimer's disease, stained with MCA-AB9, the signal detected with HRP and DAB. Senile plaques shown as "SP". The inset shows SP stained with the fluorescent dye thioflavin-S.

Alzheimer's disease is a serious, common, age-related dementia, which is characterized by the formation of senile plaques, extracellular accumulations of insoluble proteins. A major component of these plaques is β -amyloid, a.k.a. A β ; a peptide of 42 or 40 amino acids. The A β peptide is derived from a much larger protein called the amyloid precursor protein (APP). Some forms of Alzheimer's disease are caused by point mutations in the APP gene, strong evidence that A β has an important role in the disease process. The MCA-AB9 antibody has been described in peer reviewed publications and binds to the N-terminal of the A β peptide.



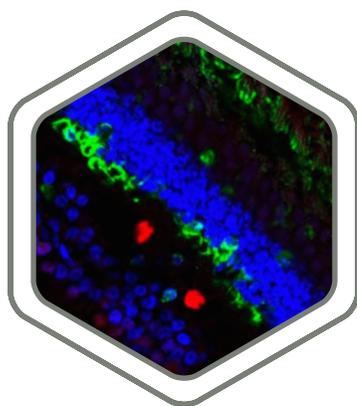
Mouse mAb to Amyloid A β

Cat# MCA-AB9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity	
APP	AB_2572226	1-42 human amyloid A β epitope is sequence 1-16	IgG2a	~5kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu	
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3						Amount	Price
						50 μ L	\$120
						100 μ L	\$200
						500 μ L	\$800

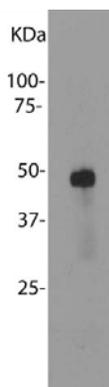
Western blot analysis of amyloid β peptide using mouse mAb to amyloid A β , MCA-AB9. The band at ~5kDa corresponds to monomeric amyloid β peptide.

Arrestin-1



Pig retina section stained with mouse mAb to arrestin-1, MCA-S128, in green, and costained with rabbit pAb to FOX2, RPCA-FOX2, in red. The blue is DAPI staining of nuclear DNA.

The arrestin proteins are a family of regulators G protein-coupled receptor (GPCR) signaling. The retina contains one of these; visual arrestin or arrestin-1, which is localized in the outer segments where it binds to and regulates the activity of phosphorylated rhodopsin, now known to be a member of the GPCR family. The protein is also known as S-antigen due to the independent discovery of it in association with an autoimmune disease of the retina. The mouse monoclonal, MCA-S128, antibody can be used to study this protein in western blots and lysates of cells and tissues.



Mouse mAb to Arrestin-1

Cat# MCA-S128

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity	
SAG	AB_2572227	Recombinant bovine arrestin-1	IgG1	48kDa	WB: 1:5,000 IF/ICC: 1:1,000	Hu, Rt, Ms, Co, Pi	
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3						Amount	Price
						50 μ L	\$120
						100 μ L	\$200
						500 μ L	\$800

Western blot analysis of bovine retinal extract using mouse mAb to arrestin-1, MCA-S128. The band at about 48kDa corresponds to visual arrestin-1.

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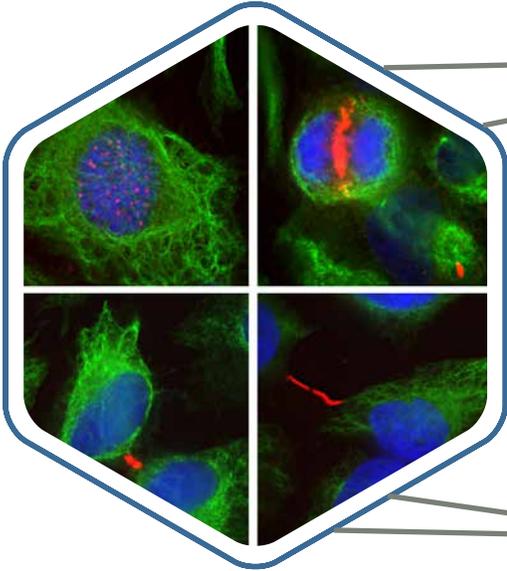
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

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Aurora

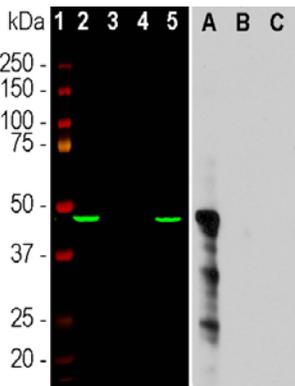
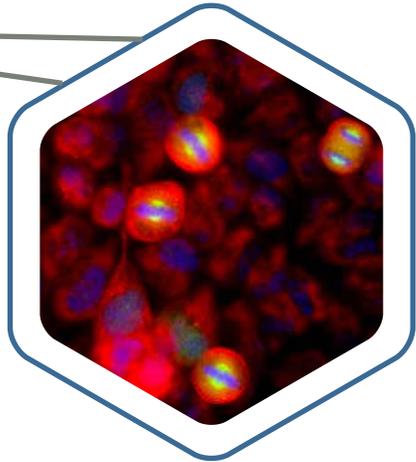
A Kinase,
 B Kinase,
 A/B Kinase

HeLa cells stained with mouse mAb to aurora B kinase, MCA-6G2, in red, and costained with chicken pAb to vimentin, CPCA-Vim, in green. The blue is Hoechst staining of nuclear DNA.



Aurora proteins belong to the family of serine/threonine protein kinases that play a key role in the regulation of cell division. Mammalian genomes encode 3 aurora kinases known as aurora A, aurora B, and aurora C. All 3 contain a regulatory domain at the N terminus which is different between the molecules followed by a catalytic kinase domain which is almost identical between them. As a result many antibodies against one family member cross react with others. We made antibodies that only bind to aurora A (MCA-1A11), to aurora B (MCA-6G2, MCA-3F11), and to aurora A and B (MCA-3H1 and MCA-5A12). These antibodies can be used to identify dividing cells and midbodies both during and after cell division.

HeLa cell cultures stained with aurora A kinase, MCA-1A11 in green, costained with chicken pAb to vimentin, CPCA-Vim in red. The blue is DAPI staining of nuclear DNA.



Mouse mAb to Aurora A kinase

Cat# MCA-1A11

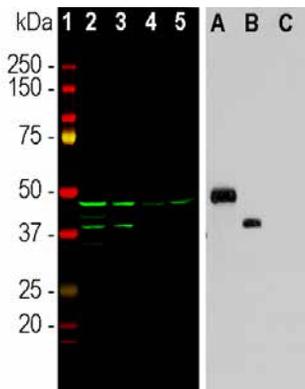
HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
AURKA	AB_2572228	Full-length human recombinant aurora A protein	IgG1	46kDa	WB: 1:100, IF/ICC: 1:100	Hu

Western blot analysis of cell lysates and recombinant proteins using mouse mAb to aurora A, MCA-1A11. Left: cells were treated with 100ng/mL of nicodazol for 6 hours:[1] protein standard, [2] HeLa, [3] canine A72, [4] equine NBL6 and [5] mouse KR158 cells. Right: human recombinant protein aurora (A, B, C as indicated) solutions. Bands at 46kDa correspond to aurora A protein.

	Amount	Price
Concentrated hybridoma cell culture media plus 5mM NaN3	200µL	\$120
	500µL	\$200
	2.5 mL	\$800

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Abbreviation Key:
 mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



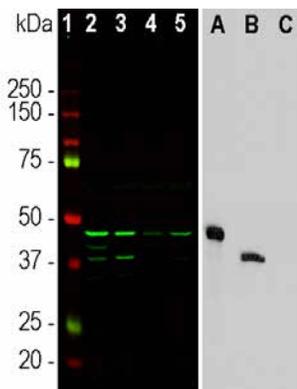
Mouse mAb to Aurora A/B Kinase

Cat# MCA-5A12

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
AURKA, AURKB	AB_2572231	Full-length human recombinant aurora A protein	IgG1	46kDa, 38kDa	WB: 1:1,000, IF/ICC & IHC: 1:1,000	Hu, Ms, Ho, Do

Western blot analysis of cell lysates and recombinant proteins using mouse mAb to aurora A/B, MCA-5A12. Left: cells were treated with 100ng/mL of nicodazol for 6 hours:[1] protein standard, [2] HeLa, [3] A72, [4] NBL6 and [5] KR158 cells. Right: human recombinant protein aurora (A, B, C as indicated) solutions. Bands at 46kDa and 38kDa correspond to aurora A and aurora B proteins respectively.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



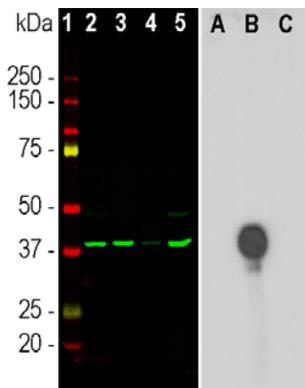
Mouse mAb to Aurora A/B Kinase

Cat# MCA-3H1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
AURKA, AURKB	AB_2572230	Full-length human recombinant Aurora A protein	IgG1	46kDa, 38kDa	WB: 1:1,000, IF/ICC & IHC: 1:500	Hu, Ms, Ho, Do

Western blot analysis of different cell lysates and recombinant protein solutions using mouse mAb to aurora A/B, MCA-3H1. Left: cells were treated with 100ng/mL of nicodazol for 6 hours:[1] protein standard, [2] HeLa, [3] A72, [4] NBL6 and [5] KR158 cells. Right: human recombinant protein aurora (A, B, C as indicated) solutions. Bands at 46kDa and 38kDa correspond to aurora A and aurora B proteins respectively.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



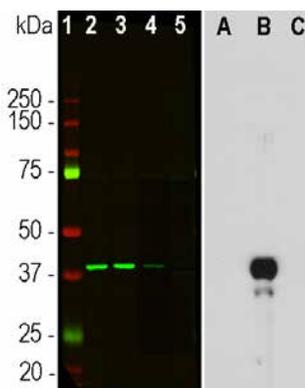
Mouse mAb to Aurora B kinase

Cat# MCA-3F11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
AURKB	AB_2572233	Full-length human recombinant aurora B protein	IgG2a	38kDa	WB: 1:1,000, IF/ICC & IHC: 1:1,000	Hu, Ms, Ho, Do

Western blot analysis of different cell lysates and recombinant protein solutions using mouse mAb to aurora B, MCA-3F11. Left: cells were treated with 100ng/mL of nicodazol for 6 hours:[1] protein standard, [2] HeLa, [3] A72, [4] NBL6 and [5] KR158 cells. Right: human recombinant protein Aurora (A, B, C as indicated) solutions. Bands at 38kDa correspond to aurora B protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Mouse mAb to Aurora B kinase

Cat# MCA-6G2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
AURKB	AB_2572234	Full-length human recombinant aurora B protein	IgG1	38kDa	WB: 1:1,000, IF/ICC & IHC: 1:1,000	Hu, Ho, Do

Western blot analysis of different cell lysates and recombinant protein solutions using mouse mAb to aurora B, MCA-6G2. Left: cells were treated with 100ng/mL of nicodazol for 6 hours:[1] protein standard, [2] HeLa, [3] A72, [4] NBL6 and [5] KR158 cells. Right: human recombinant protein aurora (A, B, C as indicated) solutions. Bands at 38kDa correspond to aurora B protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

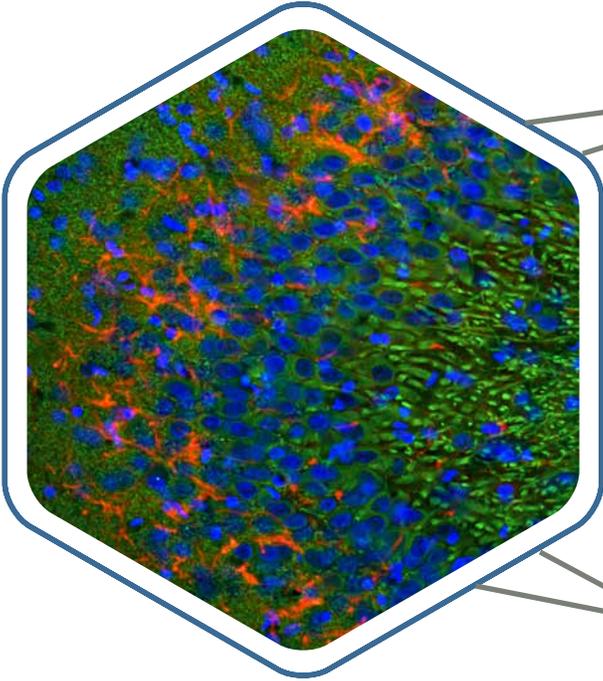
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Abbreviation Key:

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Rat hippocampus section stained with rabbit pAb to ANK3, RPCA-ANK3, in red, and costained with mouse mAb to MAP2, MCA-2C4, in green. The blue is Hoechst staining of nuclear DNA.

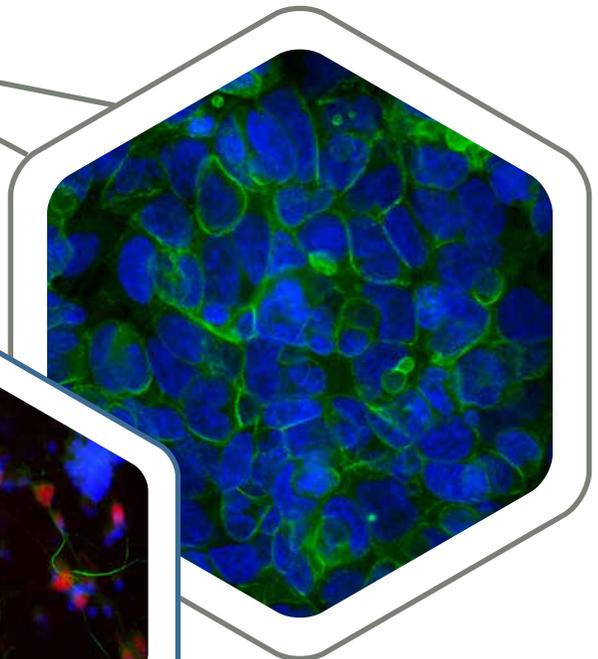


ANK3

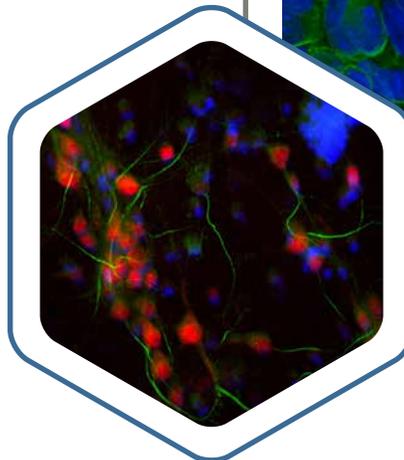
Ankyrin 3

The mammalian ankyrin family of proteins consists of three members, namely ankyrin 1, 2 and 3, also known as ankyrin R, B, and G respectively. They are high molecular weight and abundant proteins that function to link integral membrane proteins to the underlying spectrin-actin cytoskeleton. Ankyrin 3, also known as ankyrin G, is expressed widely in the body, but in the CNS and PNS it is limited to axonal initial segment and nodes of Ranvier. There it plays a significant role in linking specific membrane channels and receptors to the underlying cytoskeleton in these physiologically important regions. Antibodies to ankyrin 3 are therefore useful to identify axon initial segments and nodes of Ranvier in sections and culture.

HEK293 cell culture stained with mouse mAb to ANK3, MCA-2A8, in green. The blue is Hoechst staining of nuclear DNA.



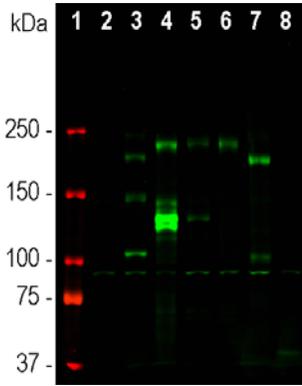
Rat cortical neuron-glia cell culture stained with chicken pAb to ANK3, CPCA-ANK3, in green, and costained with mouse mAb to FOX3/NeuN, MCA-1B7, in red. The blue is Hoechst staining of nuclear DNA.



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Abbreviation Key:

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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



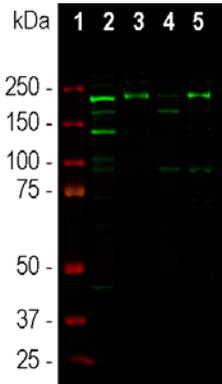
Mouse mAb to ANK3

Cat# MCA-2A8

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ANK3	AB_2737593	Recombinant construct of human ANK3 (AC: 3980-4377)	IgG1	190kDa	WB: 1:2,000 IF/ICC & IHC: 1:2,000	Hu, Rt

Western blot analysis of different tissue and cell lysates using mouse mAb to ankyrin 3, MCA-2A8, dilution 1:2,000 in green: [1] protein standard (red), [2] NIH-3T3, [3] C6, [4] HEK293, [5] HeLa, [6] SH-SY5Y cells, [7] rat brain and [8] mouse brain lysates. Bands at 100-190kDa represent ankyrin 3 splice variants. Higher molecular weight ankyrin 3 isoforms are visible on longer exposure.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



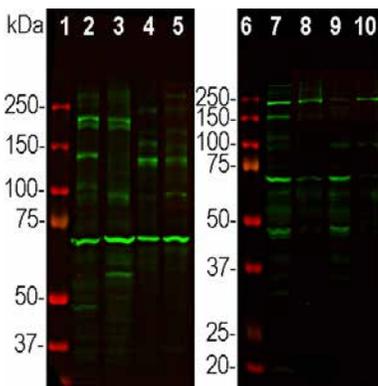
Rabbit pAb to ANK3

Cat# RPCA-ANK3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ANK3	AB_2737592	Recombinant construct of human ANK3 (AC: 3980-4377)	IgG	190kDa	WB: 1:500 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates using rabbit pAb to ankyrin 3, RPCA-ANK3, dilution 1:1,000 in green: [1] protein standard (red), [2] rat cortex, [3] rat cortex membrane enriched fraction, [4] mouse cortex, and [5] mouse cortex membrane enriched fraction. Bands at 100-190kDa represent ankyrin 3 splice variants. Higher molecular weight ankyrin 3 isoforms are visible on longer exposure.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to ANK3

Cat# CPCA-ANK3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ANK3	AB_2737591	Recombinant construct of human ANK3 (AC: 3980-4377)	IgY	190kDa	WB: 1:2,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Mo

Western blots of tissue and cell lysates using chicken pAb to ankyrin 3, CPCA-ANK3, dilution 1:3,000, in green. [1, 6] protein standard, [2] rat brain, [3] cow cortex, [4] HEK293 cells, [5] COS-1 cells, [7] rat cortex, [8] rat cortex membrane enriched fraction, [9] mouse cortex, [10] mouse cortex membrane enriched fraction. Bands at 60-190kDa represent ankyrin 3 splice variants. Higher molecular weight ankyrin 3 isoforms are visible on longer exposure.

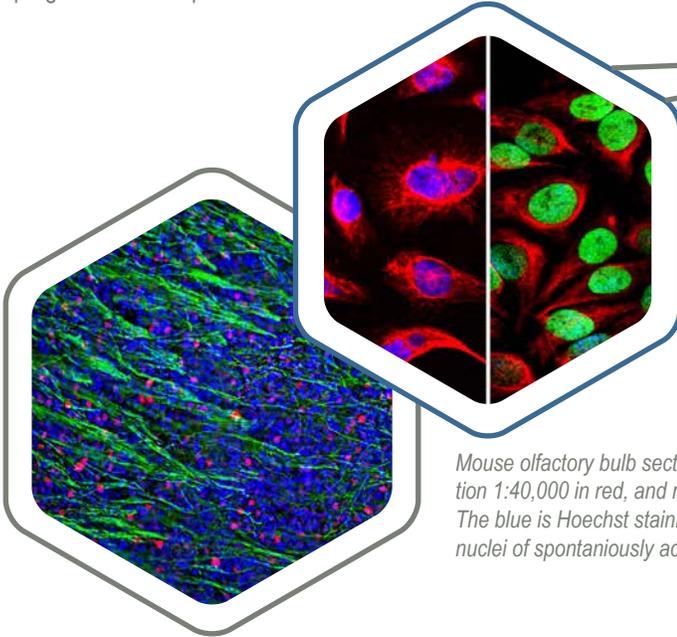
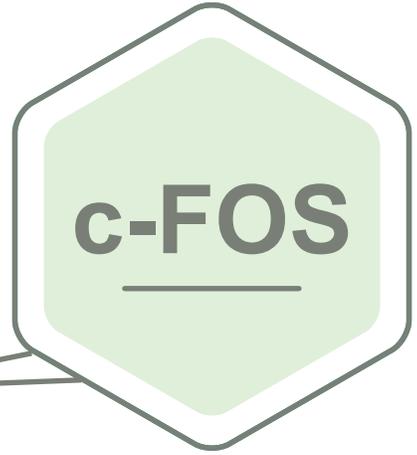
Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000

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Abbreviation Key:

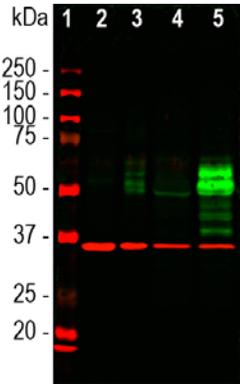
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The c-FOS protein is a member of the FOS family of potent and important transcription factors. It is the normal cellular counterpart of the product of the retroviral oncogene *v-FOS*. Transient expression of c-FOS leads to rapid cell proliferation, differentiation, neoplastic transformation, apoptosis or other specific responses. *c-FOS* is therefore considered to be an “immediate early gene” because its expression is normally low but increases rapidly in response to a wide array of stimuli. Expression is also turned on by oncogenic transformation and damage by UV radiation. High quality antibodies to c-FOS are useful to identify activated cells in a variety of experimental contexts. The EnCor c-FOS antibodies reliably detect upregulation of this protein in western blot and in ICC/IF of stimulated cells.



HeLa cells stained with mouse mAb to c-FOS, MCA-2H2, dilution 1:1,000 in green, and chicken pAb to vimentin, CPCA-Vim, dilution 1:10,000, in green. The blue is DAPI staining of nuclear DNA. Cells were kept in FBS – free media for 36 hours. Then the cells were stimulated with 20% FBS for 30 min. c-FOS antibody labels only the nuclei of stimulated cells.

Mouse olfactory bulb section stained with rabbit pAb to c-FOS, RPCA-c-FOS, dilution 1:40,000 in red, and mouse mAb to NF-L, MCA-7D1, dilution 1:5,000, in green. The blue is Hoechst staining of nuclear DNA. The c-FOS antibody labels only the nuclei of spontaneously active neurons.



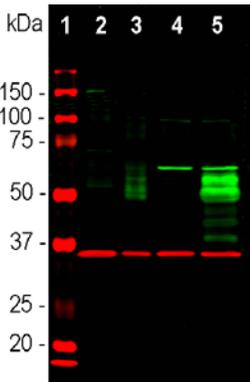
Mouse mAb to c-FOS

Cat# MCA-2H2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FOS	AB_2571561	Full-length human recombinant protein	IgG1	50-65kDa	WB: 1:500 IF/ICC & IHC: 1:500	Hu, Rt, Ms

Western blot analysis of cell lysates using mouse mAb to c-FOS, MCA-2H2, in green, and rabbit pAb to GAPDH, RPCA-GAPDH, in red. [1] protein standard (red), [2] cells grown in FBS free media. [3] cells stimulated with 20% FBS for 2 hours after being in FBS-free media for 36 hours. [4] rat cortical neurons, and [5] rat cortical neurons treated with membrane depolarization buffer for 5 hours. Multiple bands at 50-65kDa in stimulated or treated cell lysates represent different forms of the c-FOS protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Rabbit pAb to c-FOS

Cat# RPCA-c-FOS

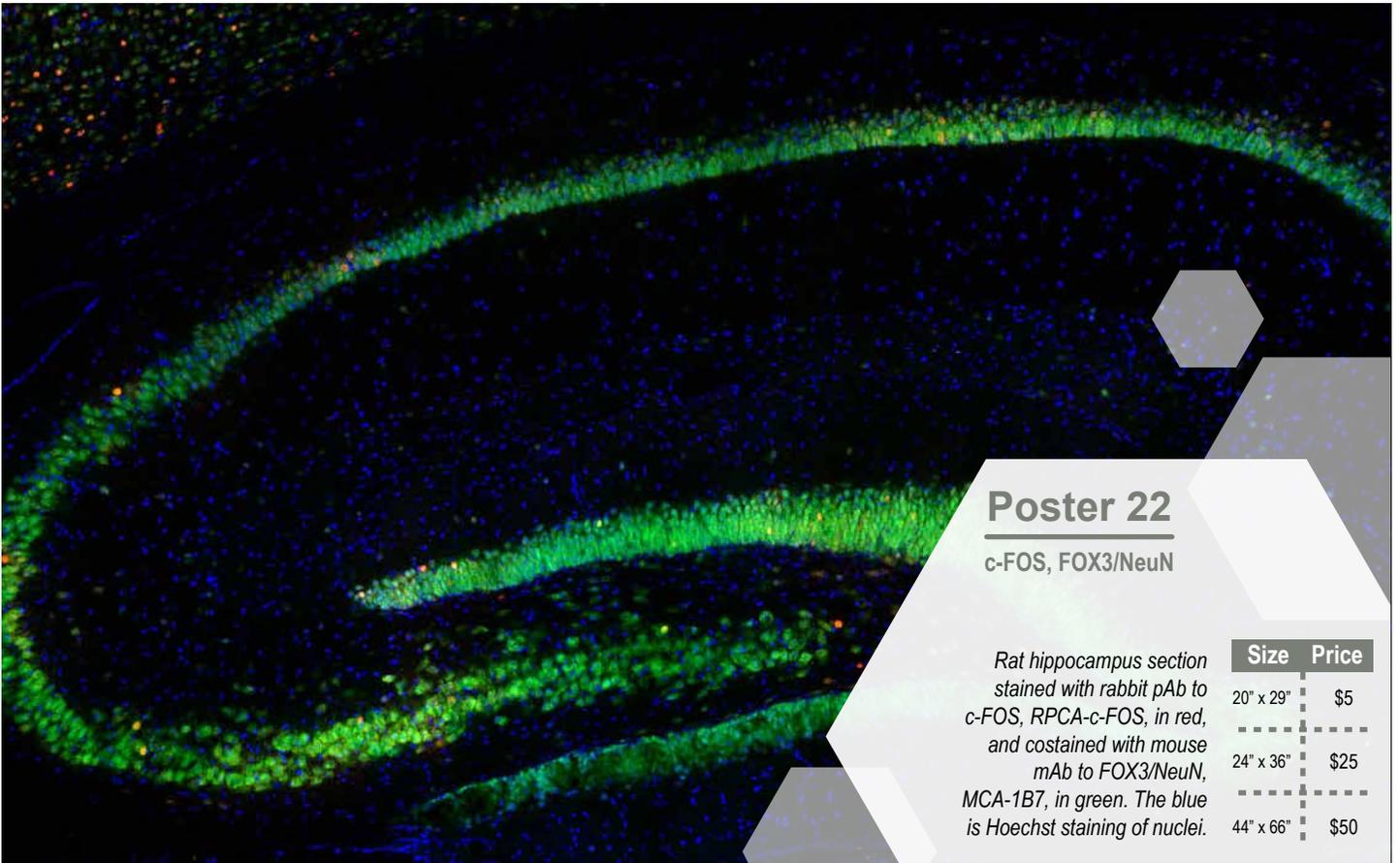
HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FOS	AB_2572236	Full-length human recombinant protein	IgG	50-65kDa	WB: 1:3,000 IF/ICC: 5,000 IHC: 1:20,000	Hu, Rt, Ms

Western blot analysis of cell lysates using rabbit pAb to c-FOS, RPCA-c-FOS, in green, and mouse mAb to GAPDH, MCA-1D4, in red, a loading control. [1] protein standard (red), [2] cells grown in FBS free media. [3] cells stimulated with 20% FBS for 2 hours. after being in FBS free media for 36 hours. [4] rat cortical neurons, [5] rat cortical neurons treated with membrane depolarization buffer for 5 hours. Multiple bands at 50-65kDa in stimulated or treated cell lysates, correspond to different isoforms of the c-FOS protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000

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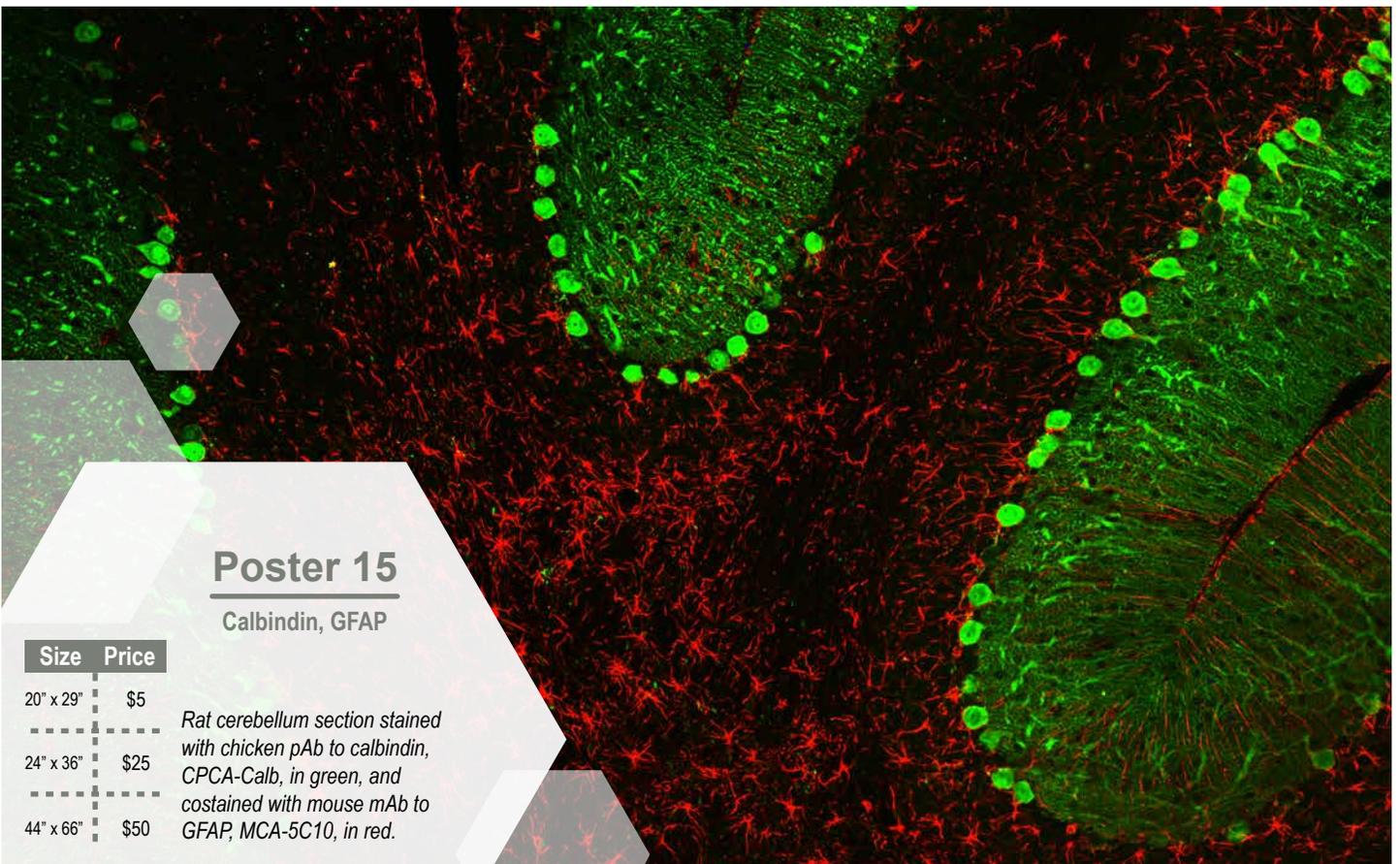


Poster 22

c-FOS, FOX3/NeuN

Rat hippocampus section stained with rabbit pAb to c-FOS, RPCA-c-FOS, in red, and costained with mouse mAb to FOX3/NeuN, MCA-1B7, in green. The blue is Hoechst staining of nuclei.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50



Poster 15

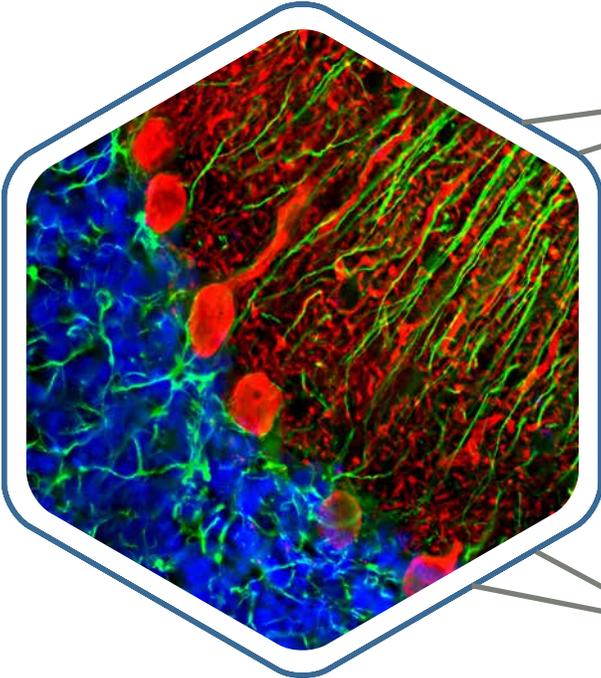
Calbindin, GFAP

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

Rat cerebellum section stained with chicken pAb to calbindin, CPCA-Calb, in green, and costained with mouse mAb to GFAP, MCA-5C10, in red.

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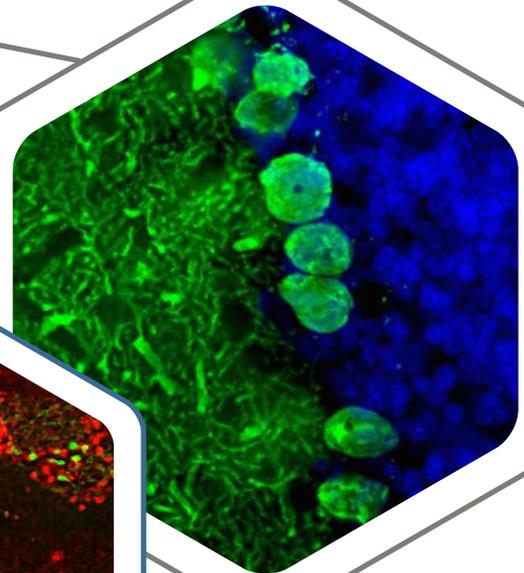
Rat cerebellum section stained with mouse mAb MCA-5A9 in red, and costained with rabbit pAb to GFAP, RPCA-GFAP in green. The blue is Hoechst staining of nuclear DNA.



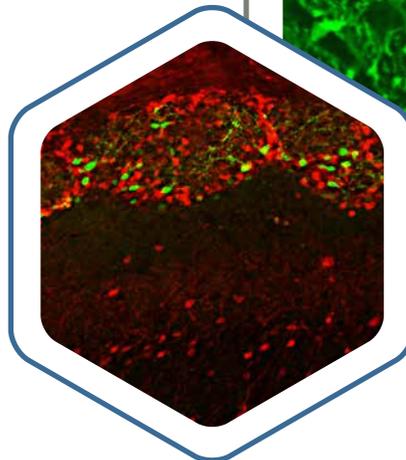
Calbindin

Calbindin, also known as calbindin-1 or calbindin-D28k is a member of the large superfamily of cytoplasmic Calcium binding proteins. Calbindin-1 is expressed in certain types of brain neurons, therefore antibodies to it are useful for identifying specific neuronal cell types. It is particularly concentrated in the dendrites and perikarya of cerebellar Purkinje cells, also found in many GABAergic interneurons in the cortex. These GABAergic interneurons in the most cases express only one of three Calcium binding proteins: calbindin, parvalbumin or calretinin. Antibodies to calbindin work well for western blot, IF/ICC, and IHC applications.

Rat cerebellum section stained with mouse mAb to calbindin, MCA-4H7, in green. The blue is Hoechst staining of nuclear DNA.



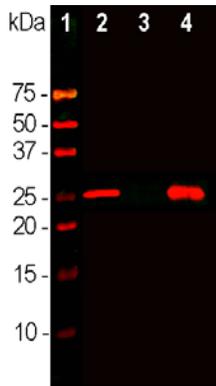
Rat olfactory bulb section stained with chicken pAb to calbindin, CPCA-Calb, in green, and costained with mouse mAb to calretinin, MCA-3G9, in red.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



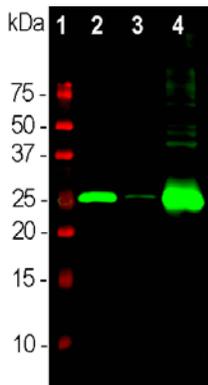
Mouse mAb to Calbindin

Cat# MCA-4H7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALB1	AB_2572238	Full-length human recombinant protein	IgG1	28kDa	WB: 1:2,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different neuronal tissue lysates using mouse mAb to calbindin, MCA-4H7, dilution 1:2,000: [1] protein standard, [2] rat cerebellum, [3] pig hippocampus and [4] cow cerebellum. Bands at ~25kDa correspond to calbindin protein, mainly expressed in the cerebellum.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



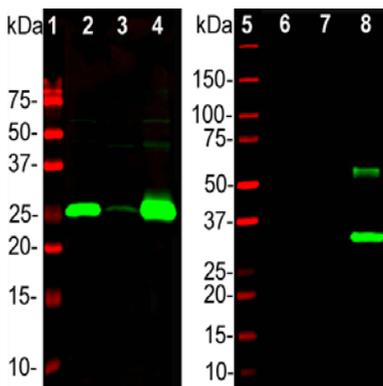
Mouse mAb to Calbindin

Cat# MCA-5A9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALB1	AB_2572239	Full-length human recombinant protein	IgG2a	28kDa	WB: 1:5,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different neuronal tissue lysates using mouse mAb to calbindin, MCA-5A9, dilution 1:5,000: [1] protein standard, [2] rat cerebellum, [3] pig hippocampus, and [4] cow cerebellum. Bands at ~25kDa correspond to calbindin protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Chicken pAb to Calbindin

Cat# CPCA-Calb

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALB1	AB_2572237	Full-length human recombinant protein	IgY	28kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi

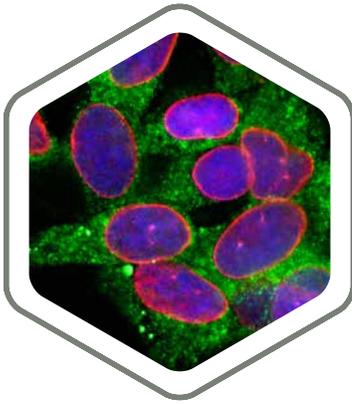
Western blot analysis of different tissue lysates and recombinant protein solutions using chicken pAb to calbindin, CPCA-Calb, dilution 1:5,000 in green: [1] protein standard, [2] rat cerebellum, [3] pig hippocampus, [4] cow cerebellum, [5] protein standard (red), [6] parvalbumin, [7] calretinin, [8] calbindin recombinant protein solution. Bands at 25kDa in tissue lysates and ~30 kDa in protein solutions correspond to calbindin protein.

Concentrated IgY preparation in PBS, 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

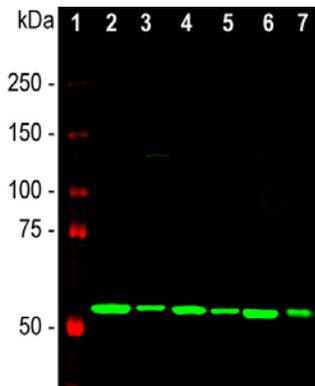
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SH-SY5Y cells stained with MCA-6C6, in green and costained with lamin A/C, CPCA-Lamin AC, in red. The blue is Hoechst staining of nuclear DNA.



Mouse mAb to Calreticulin

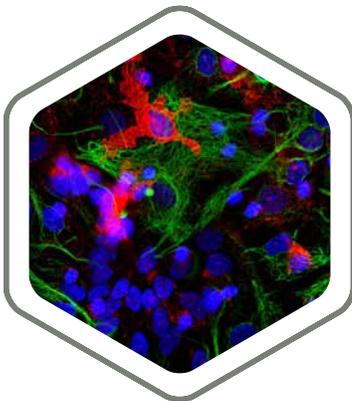
Cat# MCA-6C6

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALR	AB_2572240	Synthetic peptides VESGSLEDDWD- FLPPKKI	IgG1	48kDa	WB: 1:2,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co, Mo, Ho, Do, Pi

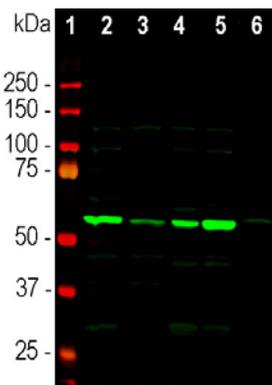
Western blot analysis of different cell line lysates using mouse mAb to calreticulin, MCA-6C6, dilution 1:2,000: [1] protein standard, [2] NIH-3T3, [3] HEK293, [4] HeLa, [5] SH-SY5Y, [6] C6 and [7] COS-1 cells. A strong single band at about 50kDa corresponds to the calreticulin protein.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800

Coronin 1a



Rat cortical neuron-glia cell culture stained with coronin 1a, RPCA-Cor1a, in red, and costained with GFAP, MCA-5C10, in green. The blue is Hoechst staining of nuclear DNA.



Rabbit pAb to Coronin 1a

Cat# RPCA-Cor1a

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CORO1A	AB_2229659	Full-length human recombinant protein	IgG	55kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi

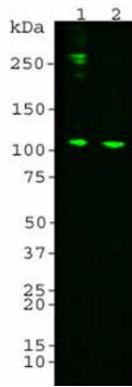
Western blot analysis of different tissue lysates using rabbit pAb to coronin 1a, RPCA-Cor1a, dilution 1:5,000: [1] protein standard, [2] mouse brain, [3] rat brain, [4] cow cerebellum, [5] cow cortex and [6] pig spinal cord. Strong single band above 50kDa mark corresponds to coronin 1a protein.

	Amount	Price
Serum + 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800

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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



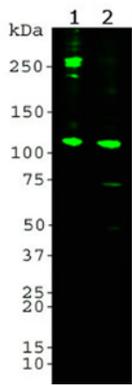
Mouse mAb to Complement C3 α -chain

Cat# MCA-2B5

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
C3	AB_2572257	Human recombinant netrin domain of C3	IgG1	185kDa	WB: 1:1,000	Hu

Western blot analysis of mouse mAb to complement C3 α -chain, MCA-6E8, probed with [1] 0.1 μ g of pure human C3 protein and [2] normal human serum sample. Band at about 115kDa represents the intact α subunit of C3.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800



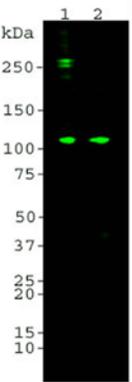
Mouse mAb to Compliment C3 α -chain

Cat# MCA-6B1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
C3	AB_2572254	Recombinant human C3 N-terminal anaphylatoxin construct	IgM	185kDa	WB: 1:5,000	Hu

Western blot analysis of mouse mAb to complement C3 α -chain, MCA-6E8, probed with [1] 0.1 μ g of pure human C3 protein and [2] normal human serum sample. Band at about 115kDa represents the intact α subunit of C3.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800



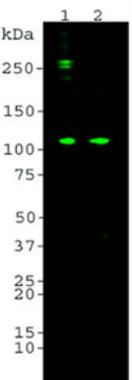
Mouse mAb to Compliment C3 α -chain

Cat# MCA-6E8

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
C3	AB_2572258	Human recombinant netrin domain of C3	IgG1	185kDa	WB: 1:1,000	Hu

Western blot analysis of mouse mAb to complement C3 α -chain, MCA-6E8, probed with [1] 0.1 μ g of pure human C3 protein and [2] normal human serum sample. Band at about 115kDa represents the intact α subunit of C3.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800



Mouse mAb to Compliment C3 α -chain

Cat# MCA-7C1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
C3	AB_2572255	Recombinant human C3 N-terminal anaphylatoxin construct	IgG2b	185kDa	WB: 1:5,000	Hu

Western blot analysis of mouse mAb to complement C3 α -chain, MCA-6E8, probed with [1] 0.1 μ g of pure human C3 protein and [2] normal human serum sample. Band at about 115kDa represents the intact α subunit of C3.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800

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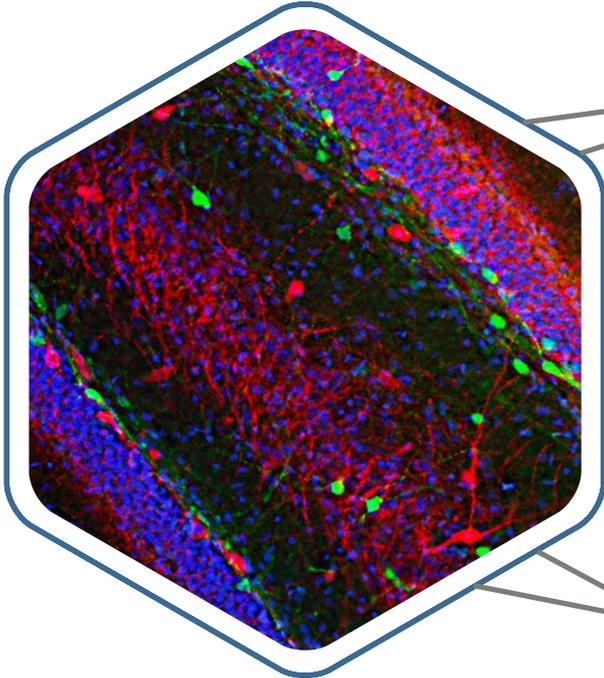
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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

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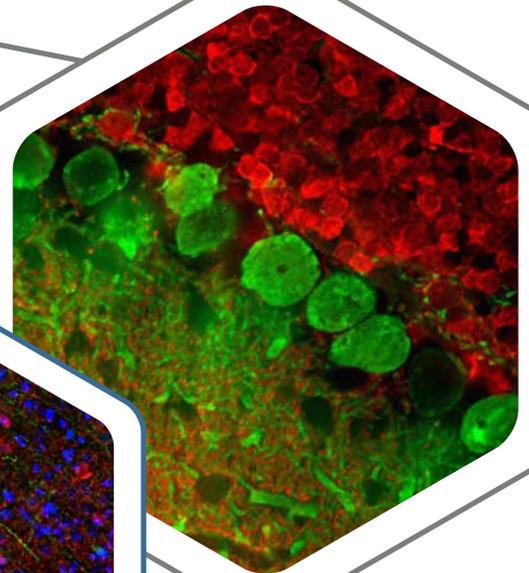
Calretinin

Rat hippocampus section stained with mouse mAb to calretinin, MCA-6A9, in green, and costained with chicken pAb to parvalbumin CPCA-Pvalb, in red. The blue is Hoechst staining of nuclear DNA.

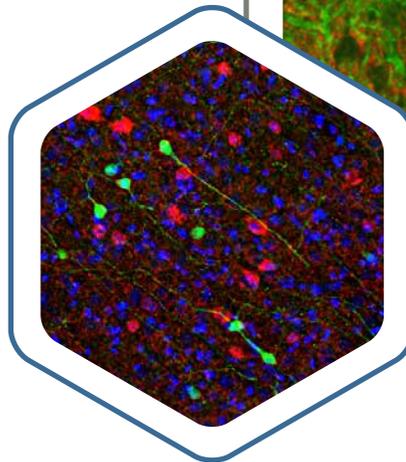


Calretinin acquired its name based on the homology with Calcium binding protein calbindin and was discovered originally in chick retina. Calretinin belongs to the large superfamily of cytoplasmic "EF hand" Calcium binding proteins. It is expressed in mammalian central nervous system, testis, fallopian tubes and pancreas. In the brain calretinin is localized in certain classes of neurons, particularly in cerebellar granular cells and their parallel fibres, but also in many GABAergic cortical interneurons. These GABAergic interneurons in most cases express only one of three Calcium binding proteins, namely calretinin, calbindin or parvalbumin. As a result antibodies to calretinin are useful for identifying and subclassifying specific neuronal cell types based on their content of one or other of these proteins.

Rat cerebellum section stained with rabbit pAb to calretinin, RPCA-Calret, in red and costained with mouse mAb to calbindin, MCA-4H7, in green.



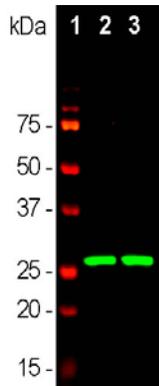
Rat cortex section stained with chicken pAb to calretinin, CPCA-Calret, in green, and costained with mouse mAb to parvalbumin, MCA-3C9, in red. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—*D. melanogaster* Sc—*S. cerevisiae* Sa—*S. aureus*



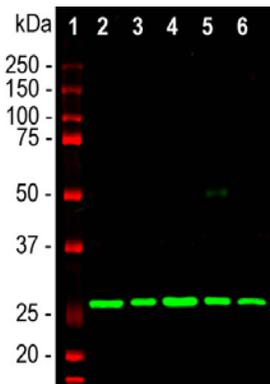
Mouse mAb to Calretinin

MCA-3G9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALB2	AB_2572242	Full-length human recombinant protein	IgG1	29kDa	WB: 1:1,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co

Western blot analysis of different tissue lysates using mouse mAb to calretinin, MCA-3G9, dilution 1:1,000 in green: [1] protein standard, [2] rat brain and [3] mouse brain. The band at 29kDa corresponds to calretinin protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



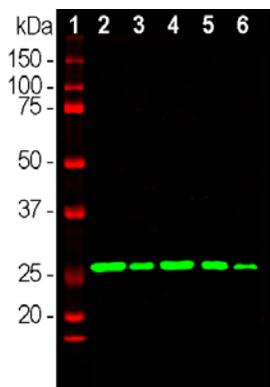
Mouse mAb to Calretinin

MCA-6A9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALB2	AB_2572243	Full-length human recombinant protein	IgA	29kDa	WB: 1:2,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of tissue lysates probed with mouse mAb to calretinin, MCA-6A9, dilution 1:2,000, in red: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord and [6] cow spinal cord. The single clean band at 29kDa corresponds to the calretinin protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



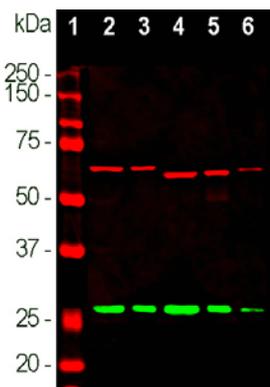
Rabbit pAb to Calretinin

RPCA-Calret

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALB2	AB_2572244	Full-length human recombinant calretinin protein	IgG	29kDa	WB: 1:5,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates probed with rabbit pAb to calretinin, RPCA-Calret, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord and [6] cow spinal cord. A band at 29kDa corresponds to the calretinin protein.

Serum + 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Chicken pAb to Calretinin

CPCA-Calret

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CALB2	AB_2572241	Full-length human recombinant protein	IgY	29kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Ms, Rt, Co

Western blot analysis of different tissue lysates using chicken pAb to calretinin, CPCA-calret, dilution 1:1,000 in green and mouse mAb to α -internexin, MCA-2E3, dilution 1:10,000 in red: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord and [6] cow spinal cord. A band at 29kDa corresponds to calretinin protein.

Concentrated IgY preparation in PBS, 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

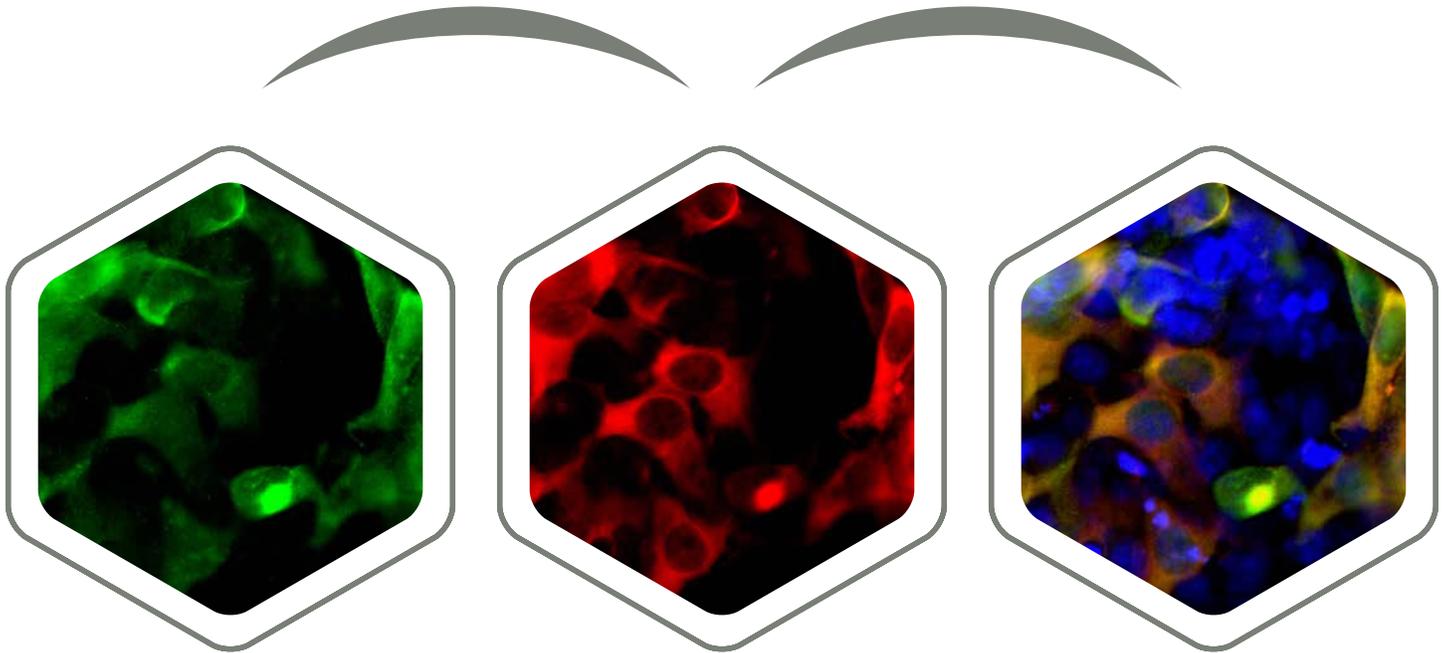
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CAS9

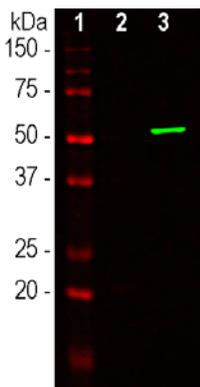
Recent revolution in biology has been stimulated by the discovery of CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) and the understanding of their significance. The *Streptococcus pyogenes* enzyme Cas9 can be utilized as a programmable restriction endonuclease, cutting DNA in a specified place and allowing DNA sequence insertion, deletion or modification. The *S. pyogenes* protein is large, 1,368 amino acids, ~160kDa. The functionally similar CAS9 homolog from *Staphylococcus aureus* is smaller in molecular size and therefore has become widely used recently as it leaves more room for other inserts in typical vector systems. EnCor supplies antibodies to both forms which can be used to verify the expression of *S. aureus* or *S.pyogenes* CAS9 in cells and in tissues.



HEK293 cell culture transfected with GFP-CAS9 fusion construct. Transfected cells are bright green.

HEK293 cell culture transfected with GFP-CAS9 fusion construct stained with mouse mAb to *S. aureus* CAS9, MCA-6F7, in red.

HEK293 cell culture transfected with GFP-CAS9 fusion construct, in green stained with mouse mAb to *S.aureus* CAS9, MCA-6F7, in red. The transfected cells stained with the CAS9 antibody appear in yellow/orange. The blue is Hoechst staining of nuclear DNA.



Mouse mAb to *S. aureus* Cas9

Cat# MCA-6F7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572247	C-terminal, 803-1053 amino acids from <i>S. aureus</i> Cas9	IgG1	35kDa	WB: 1:1,000 IF/ICC: 1:1,000	N/A

Western blot analysis of HEK293 cell lysates using mouse mAb to *S. aureus* CAS9, MCA-6F7: [1] protein standard, [2] non-transfected cells, and [3] transfected cells with GFP-Cas9 (C-terminal 803-1053 amino acids of *S. aureus* CAS9) fusion construct. Strong band at about 53kDa corresponds to the GFP-CAS9 fusion protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

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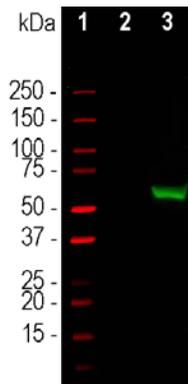
Rabbit pAb to *S. aureus* CAS9

Cat# RPCA-CAS9-SA

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572246	CT amino acids 803-1053 of <i>S. aureus</i> CAS9	IgG	35kDa	WB: 1:1,000 IF/ICC & IHC: 1:5,000	N/A

Western blot analysis of HEK293 cell lysates using rabbit pAb to *S. aureus* CAS9, RPCA-CAS9-SA: [1] protein standard, [2] non-transfected cells and [3] transfected cells with GFP-CAS9 (C-terminal 803-1053 amino acids of *S. aureus* CAS9) fusion construct. The band at about 53kDa corresponds to the GFP-CAS9 fusion protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



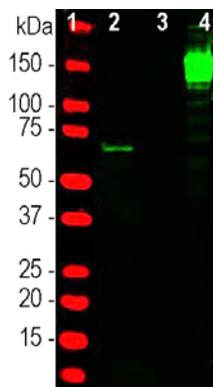
Chicken pAb to *S. aureus* CAS9

Cat# CPCA-CAS9-SA

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572245	CT amino acids 803-1053 of <i>S. aureus</i> CAS9	IgY	35kDa	WB: 1:1,000 IF/ICC & IHC: 1:2,000	N/A

Western blot analysis of HEK293 cell lysates using chicken pAb to *S. aureus* CAS9, CPCA-CAS9-SA: [1] protein standard, [2] non-transfected cells and [3] transfected cells with GFP-CAS9 (C-terminal 803-1053 amino acids of *S. aureus* CAS9) fusion construct. The band at about 53kDa corresponds to the GFP-CAS9 fusion protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



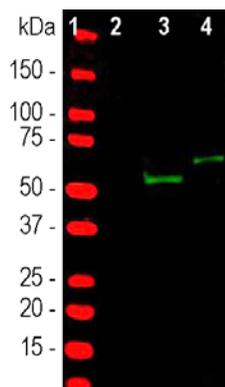
Mouse mAb to *S. pyogenes* CAS9

Cat# MCA-3F9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2744685	N-T, 1-608 amino acids from <i>S. pyogenes</i> CAS9	IgG	160kDa	WB: 1:1,000 IF/ICC: 1:1,000	N/A

Western blot analysis of HEK293 cell lysates using mouse mAb to *S. pyogenes* CAS9, MCA-3F9: [1] protein standard, [2] transfected cells with *S. pyogenes* CAS9 (N-terminal 1-680 amino acids) construct, [3] non-transfected cells, and [4] full length recombinant *S. pyogenes* CAS9 protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Rabbit pAb to *S. pyogenes* Cas9

Cat# RPCA-Cas9-SP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572246	N-terminal and C-terminal <i>S. pyogenes</i> CAS9	IgG	160kDa	WB: 1:1,000 IF/ICC: 1:1,000	N/A

Western blot analysis of HEK293 cell lysates using rabbit pAb to *S. pyogenes* CAS9, RPCA-Cas9-SP: [1] protein standard, [2] non-transfected cells, [3] transfected cells with C-terminal (814-1372 amino acids) of *S. pyogenes* CAS9, and [4] transfected HEK293 cells with N-terminal (1-608 amino acids) of *S. pyogenes* CAS9. 60kDa and 68kDa bands correspond to *S. pyogenes* CAS9 C-, and N-terminal constructs respectively.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000

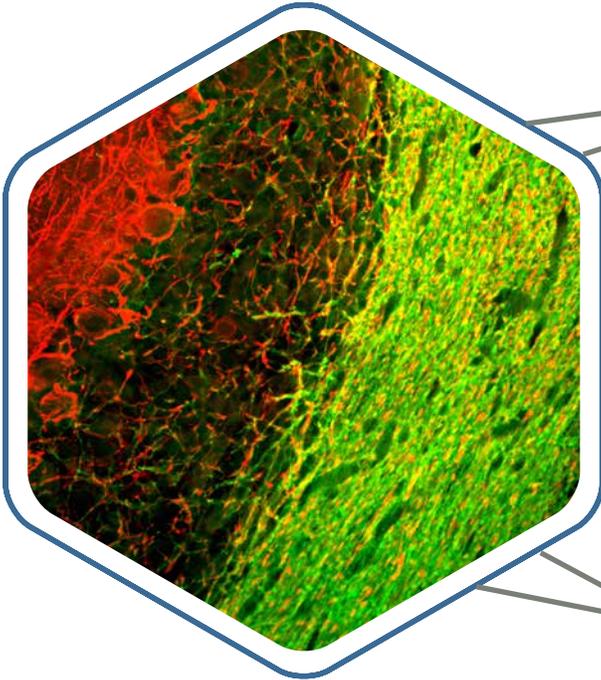
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Pi—Pig Ho—Horse Ch—Chicken Dm—*D. melanogaster* Sc—*S. cerevisiae* Sa—*S. aureus*

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Rat cerebellum section stained with mouse mAb to CNP, MCA-1H10, in green, and costained with chicken pAb to NF-M, CPCA-NF-M, in red.

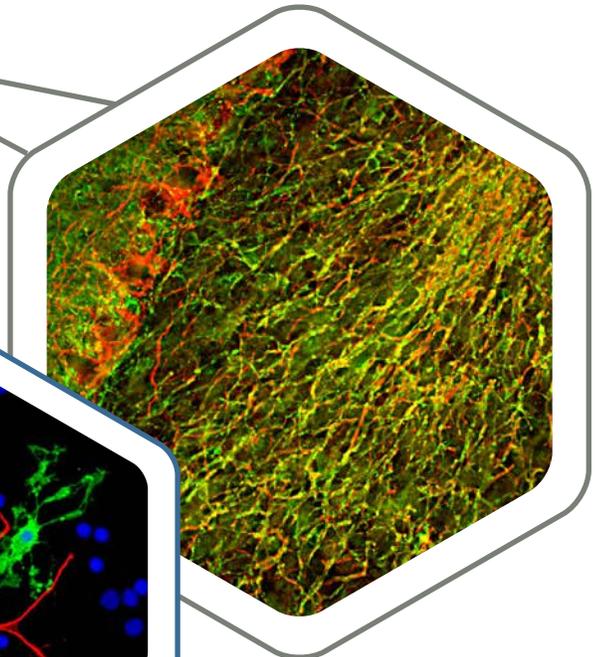


CNP

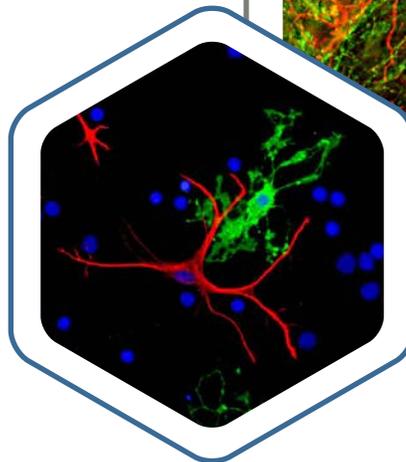
Cyclic Nucleotide Phosphodiesterase

The 2',3'-cyclic nucleotide 3' phosphodiesterase (CNP) is an enzyme which catalyzes the hydrolysis of 2',3'-cyclic nucleotides to 2'-nucleotides. This enzyme is highly expressed in the central and peripheral nerve systems and is exclusively localized in oligodendrocytes and Schwann cells respectively. CNP is synthesized in developing cells earlier than other myelin proteins and continues to be expressed at high levels in these cells in adult organisms. Reduced CNP levels are linked to various diseases and in experimental conditions when myelin production is generally reduced, such as multiple sclerosis, Down's syndrome, and Alzheimer's disease. Antibodies to CNP therefore are very useful as markers for myelin sheaths and myelin producing cells both in cell culture and in tissues.

Rat cerebellum section stained with chicken pAb to CNP, CPCA-CNP, in green, and costained with rabbit pAb to NF-H, RPCA-NF-H, in red.



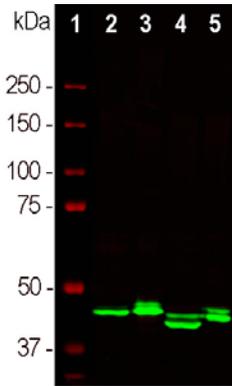
Rat cortical neuron-glia cell culture stained with rabbit pAb to CNP, RPCA-CNP, in green, and costained with mouse mAb to GFAP, MCA-5C10 in red. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—*D. melanogaster* Sc—*S. cerevisiae* Sa—*S. aureus*



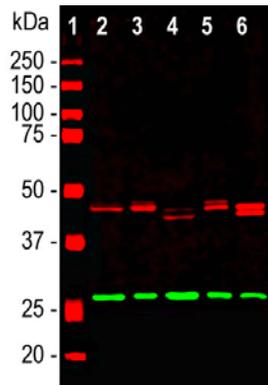
Mouse mAb to CNP

Cat# MCA-1H10

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CNP	AB_2572250	Full-length human recombinant protein	IgG1	46, 48kDa	WB: 1:2,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co

Western blot analysis of different tissue lysates using mouse mAb to CNP, MCA-1H10, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. Double bands at 46kDa and 48kDa correspond to the major isotypes of the CNP protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



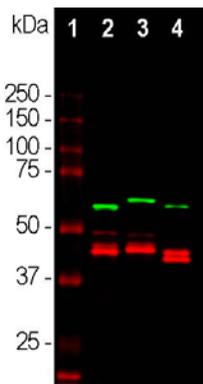
Rabbit pAb to CNP

Cat# RPCA-CNP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CNP	AB_2572252	Full-length human recombinant protein	IgG	46, 48kDa	WB: 1:5,000 IF/ICC: 1:1,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates using rabbit pAb to CNP, RPCA-CNP, dilution 1:5,000 in red: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, and [6] cow spinal cord. Double bands at 46kDa and 48kDa correspond to isotypes of the CNP protein. The blot was simultaneously probed with mouse mAb to calretinin, MCA-6A9, dilution 1:2,000, in green.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to CNP

Cat# CPCA-CNP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
CNP	AB_2572249	Full-length human recombinant protein	IgY	46, 48kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co

Western blot analysis of spinal cord tissue lysates using chicken pAb to CNP, CPCA-CNP, dilution 1:5,000, in red: [1] protein standard (red), [2] mouse, [3] rat, and [4] cow spinal cord. Double bands at 46kDa and 48kDa correspond to isotypes of the CNP protein. The blot was simultaneously probed with mouse mAb to α -interixin, MCA-2E3, dilution 1:2,000 in green. Major bands in the 64-66kDa range corresponds to α -interixin.

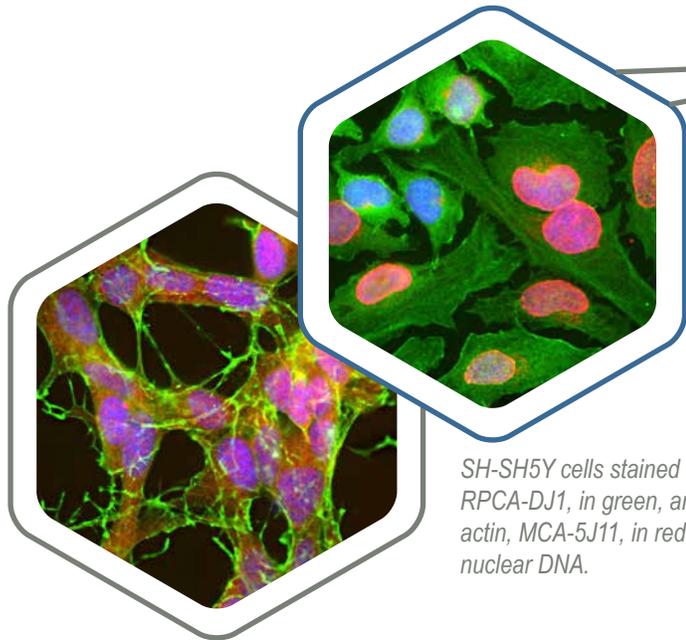
Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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Abbreviation Key:

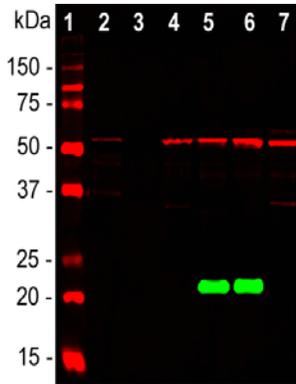
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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

DJ1, also known as PARK7, is an abundant soluble protein which is implicated in some forms of Parkinson's disease and cancer. The function of DJ-1 is not well understood but it appears to play an important role in transcriptional regulation and the reaction to oxidative stress. It may also act as a chaperone or as a cysteine protease. DJ-1 is expressed in almost all cells and tissues. Antibody to DJ1 can be used to study levels of this protein in normal human cells disease models.



HeLa cells stained with mouse mAb to DJ1/PARK7, MCA-4H4, in green, and costained with chicken pAb to laminA/C, CPCA-LaminAC, in red. The blue is Hoechst staining of nuclear DNA.

SH-SH5Y cells stained with rabbit pAb to DJ1/PARK7, RPCA-DJ1, in green, and costained with mouse mAb to actin, MCA-5J11, in red. The blue is Hoechst staining of nuclear DNA.



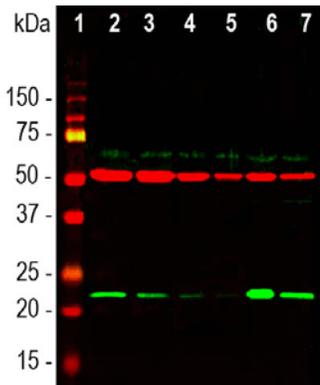
Mouse mAb to DJ1/PARK7

Cat# MCA-4H4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PARK7	AB_2572260	Full-length human recombinant protein	IgG1	21kDa	WB: 1:5,000 IF/ICC: 1:1,000	Hu, not Ms, Rt

Western blot analysis of whole brain and cell lysates using mouse mAb against DJ-1/PARK7, MCA-4H4, dilution 1:5,000 in green. [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HeLa, [6] HEK293 and [7] C6 cells. The blot was simultaneously probed with chicken pAb to vimentin, CPCA-Vim, dilution 1:5,000 in red, revealing a single band at about 50kDa.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800



Rabbit pAb to DJ1/PARK7

Cat# RPCA-DJ1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PARK7	AB_2737418	Full-length human recombinant protein	IgG	21kDa	WB: 1:2,000 IF/IHC: 1:1,000	Hu, Rt, Ms, Co, Pi, Do

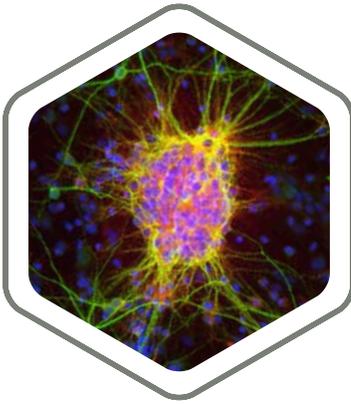
Western blot analysis of different tissue and cell lysates using rabbit pAb against DJ1/Park7, RPCA-DJ1, dilution 1:2,000 in green. [1] protein standard, [2] rat brain, [3] mouse brain, [4] rat embryonic neuron-glia cells, [5] NIH-3T3, [6] HEK293, and [7] HeLa cells. The blot was simultaneously probed with mouse mAb to β-tubulin, MCA-1B12, dilution 1:10,000 in red, revealing a single band at about 50kDa corresponding to the β-tubulin protein.

	Amount	Price
Serum + 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800

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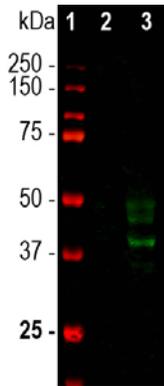
Abbreviation Key:
 mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Doublecortin



Cortical neuron-glia cell culture stained with DCX antibody, MCA-3E1, in red, and costained with MAP2, CPCA-MAP2, in green. The blue is Hoechst staining of nuclear DNA.

The *Doublecortin (DCX)* gene was discovered and named for an X-linked syndrome phenotype in affected females which results in an aberrant doubled cortex. DCX is a microtubule (MT)-stabilizing protein essential for neuronal migration during brain development. DCX is expressed in developing neuroblasts as they emerge from the cell division cycle, but is lost in mature neurons. Defects in the *DCX* gene result in cortical morphological defects such as lissencephaly, subcortical band heterotopia and pachygyria. Antibodies to DCX are useful to identify stem cells in sections and in cell culture and to monitor neurogenesis.



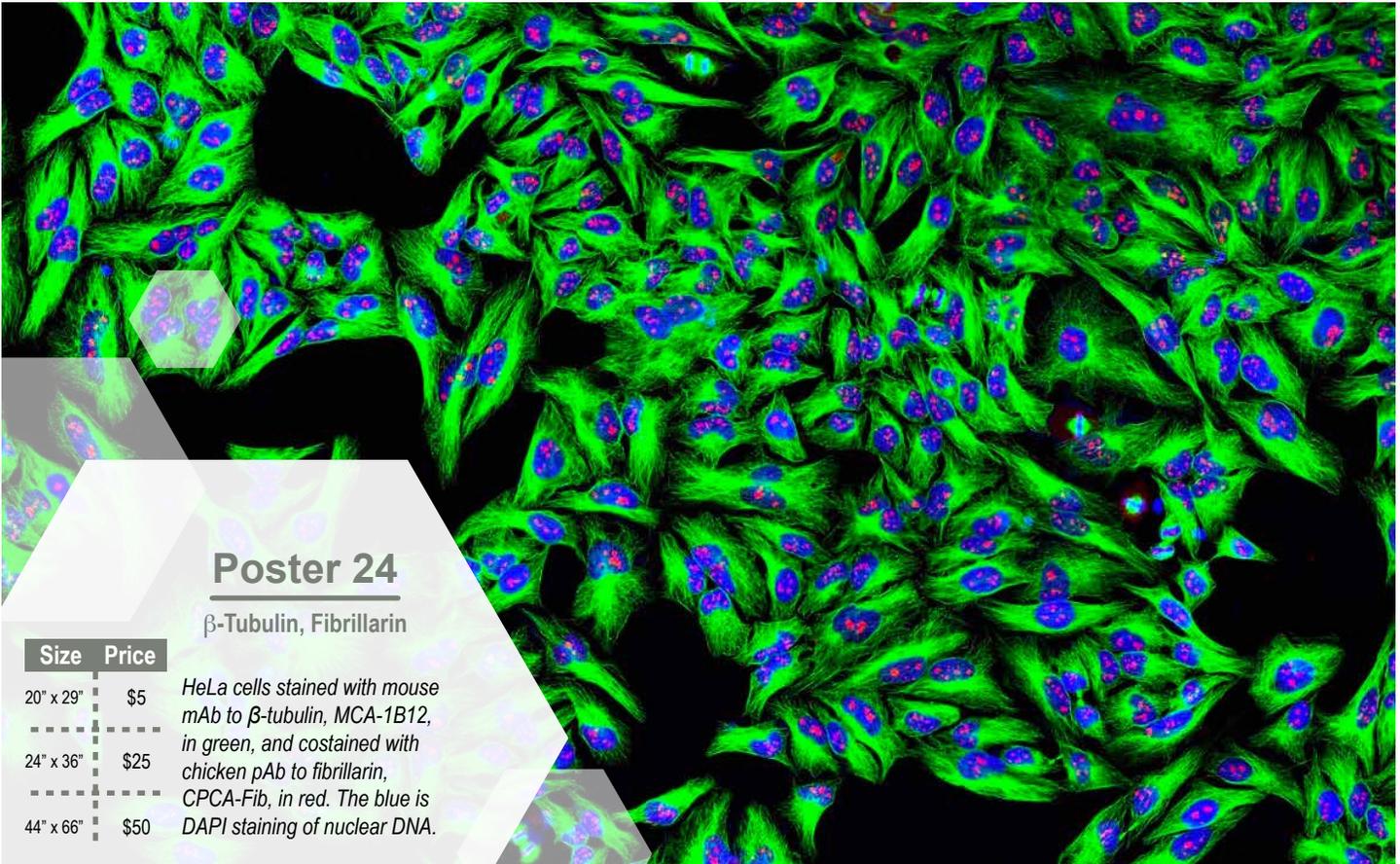
Mouse mAb to Doublecortin

Cat# MCA-3E1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
DCX	AB_2572262	Full-length human recombinant Lis-A isoform	IgG2a	35-45kDa	WB: 1:1,000 IF/ICC: 1:1,000	Hu, Rt, Ms

Western blot analysis of rat whole brain lysates using mouse mAb to doublecortin, MCA-3E1, dilution 1:1,000 in green: [1] protein standard (red), [2] adult rat brain, [3] embryonic E20 rat brain. Strong bands at 40kDa and 45kDa correspond to the doublecortin protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Poster 24

β-Tubulin, Fibrillarin

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

HeLa cells stained with mouse mAb to β-tubulin, MCA-1B12, in green, and costained with chicken pAb to fibrillarin, CPCA-Fib, in red. The blue is DAPI staining of nuclear DNA.

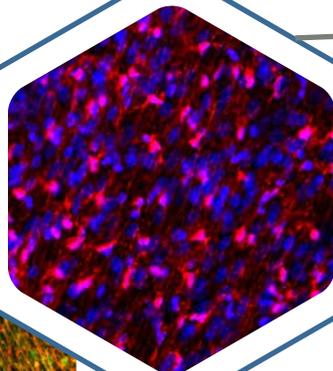
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Abbreviation Key: mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

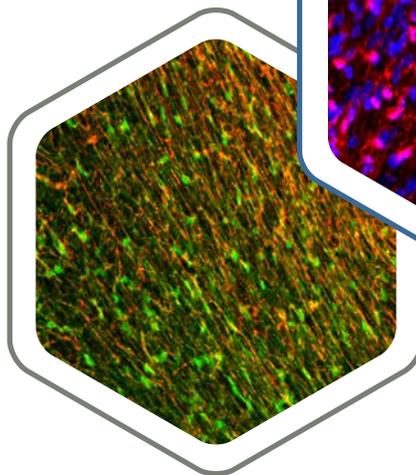
Fatty Acid-Binding Proteins (FABPs) are intracellular low molecular weight (14–15 kDa) polypeptides that bind and solubilize long-chain fatty acids, controlling intracellular lipid dynamics. Twelve members of the FABP family have been recognized, which are expressed in different organs, tissues and cell types. FABP7 (a.k.a. brain-type fatty acid binding protein or B-FABP) is abundantly expressed in neural stem cells and astrocytes of developing brain. It is required for the establishment radial glial fiber system necessary for the migration of immature neurons and to organize cortical layers. Antibodies to FABP7 are very useful to study neural stem cells, developing astrocytes under normal and pathological conditions and neural cell progenitors in adult brain.

FABP7

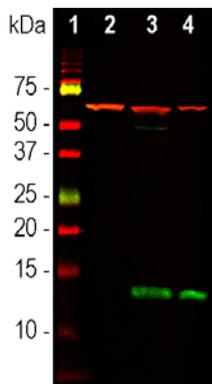
Fatty Acid Binding Protein 7



Rat embryonic (E18) brain section stained with rabbit pAb to FABP7, RPCA-FABP7, in red. The blue is Hoechst staining of nuclear DNA.



Rat embryonic (E18) brain section stained with mouse mAb to FABP7, MCA-2A84, in green, and costained with chicken pAb to vimentin, CPCA-Vim, in red.



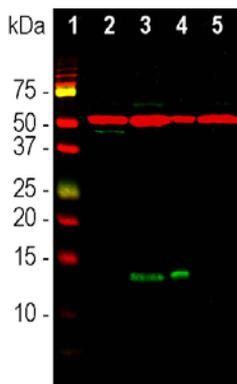
Mouse mAb to FABP7

Cat# MCA-2A84

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FABP7	AB_2737419	Full-length human recombinant protein	IgG1	~14kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of whole brain and neuron-glia cell culture lysates using mouse mAb to FABP7, MCA-2A84, dilution 1:1,000 in green, and chicken pAb to HSP60, CPCA-HSP60, dilution 1:10,000 in red: [1] protein standard, [2] adult rat brain, [3] embryonic (E18) rat brain, and [4] rat neuron-glia cell lysates. The bands at ~14kDa correspond to FABP7, and at 60kDa to HSP60 proteins.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Rabbit pAb to FABP7

Cat# RPCA-FABP7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FABP7	AB_2737420	Full-length human recombinant protein	IgG	~14kDa	WB: 1:2,000, IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of whole brain and neuron-glia cell culture lysates using rabbit pAb to FABP7, RPCA-FABP7, dilution 1:2,000 in green, and mouse mAb to β-tubulin, MCA-1B12, dilution 1:10,000 in red: [1] protein standard, [2] adult rat brain, [3] embryonic (E18) rat brain, [4] rat neuron-glia cells, and [5] adult mouse brain lysates. The bands at ~14kDa correspond to FABP7, and at 50kDa to β-tubulin proteins respectively.

Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$150
100µL	\$250	
500µL	\$1,000	

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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

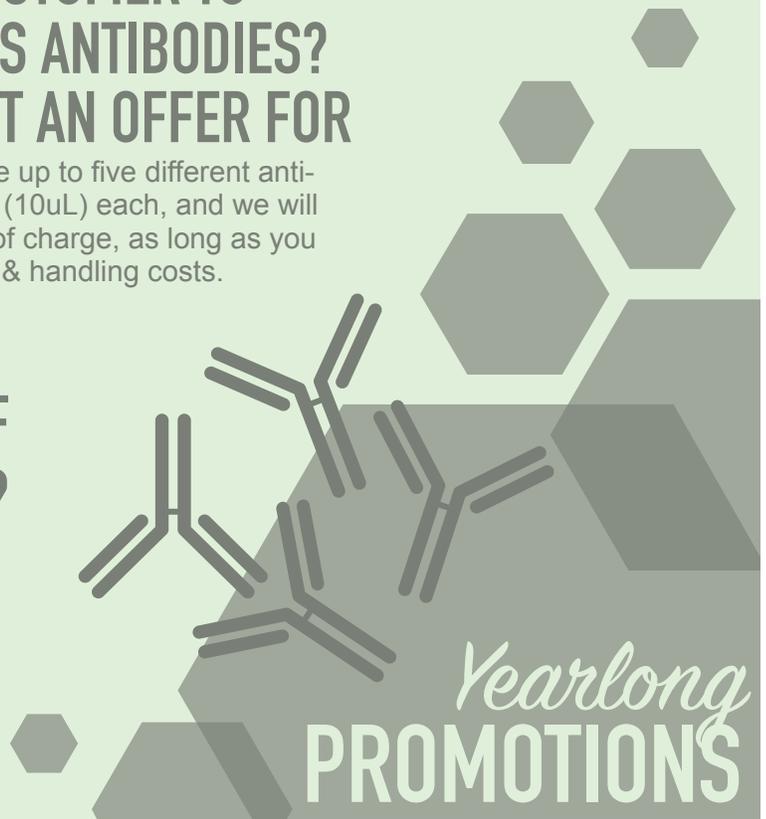


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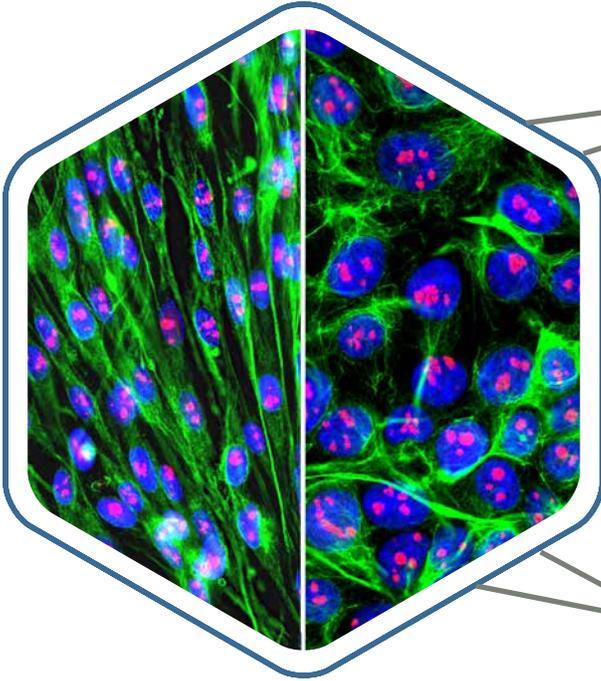
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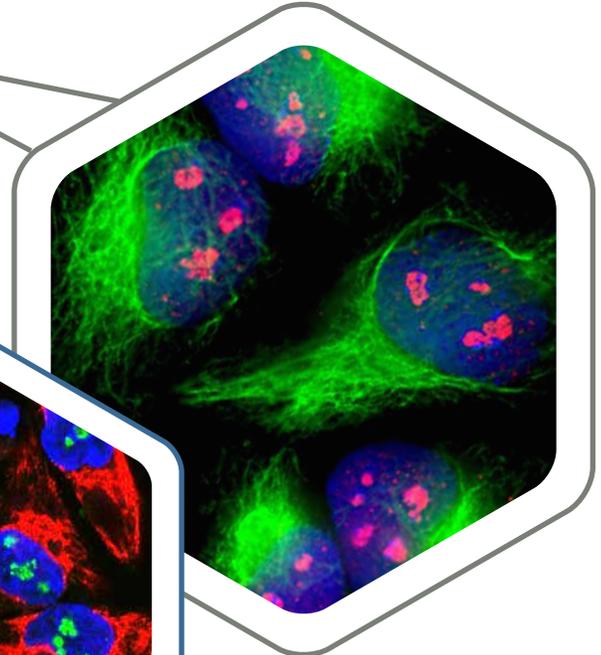
Rat C6 (left) and HEK293 (right) cellculture stained with mouse mAb to fibrillar-in, MCA-4A4, in red, and costained with chicken pAb to vimentin, CPCA-Vim, in green. The blue is Hoechst staining of nuclear DNA.



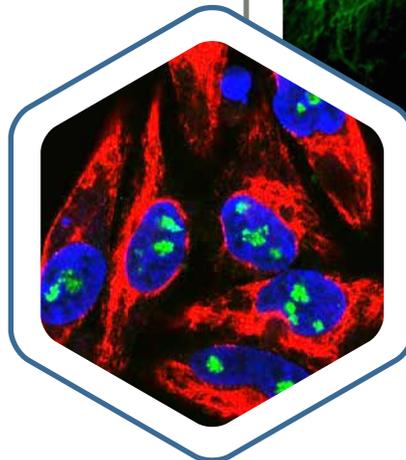
Fibrillarlin

Fibrillarlin was originally identified as a 34kDa protein recognized specifically by antibodies in the blood of many patients with the autoimmune disease scleroderma. The protein was named fibrillarlin, as ultrastructural studies revealed that it was localized in the dense fibrillar component of the nucleolus. Fibrillarlin is extraordinarily conserved in amino acid sequence, so that the yeast and human homologues are 67% identical. It is a component of a nucleolar small ribonucleoprotein complex in mammals, involved in the processing of ribosomal RNA during ribosomal biogenesis. The antibodies to fibrillarlin are therefore an excellent marker of nucleoli, particularly in rapidly dividing cells.

HeLa cells stained with rabbit pAb to fibrillarlin, RPCA-Fib, in red, and costained with chicken pAb to vimentin, CPCA-Vim, in green.



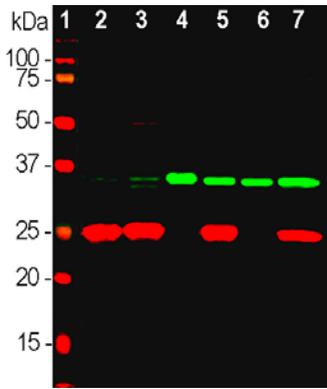
HeLa cells stained with chicken pAb to fibrillarlin, CPCA-Fib, in green, and costained with mouse mAb to vimentin, MCA-2D1, in red. The blue is DAPI staining of nuclear DNA.



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Abbreviation Key:

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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



Mouse mAb to Fibrillar

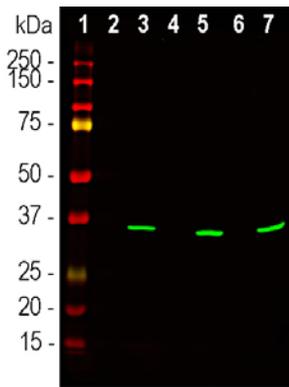
Cat# MCA-4A4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FBL	AB_2572264	Full-length human recombinant protein	IgG1	34.5kDa	WB: 1:2,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Mo, Ho, Do

Western blot analysis of different tissue and cell line lysates using mouse mAb to fibrillar protein MCA-4A4, dilution 1:2,000, in green: [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa and [7] SH-SY5Y cells. Band at ~35kDa corresponds to the fibrillar protein. The blot simultaneously was probed with rabbit pAb to UCHL1, RPCA-UCHL1, in red.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3



Mouse mAb to Fibrillar

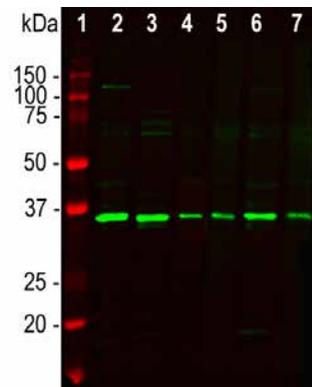
Cat# MCA-38F3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FBL	AB_2278545	Yeast nuclear protein	IgG1	34.5kDa	WB: 1:500, IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Dm, Caenorhabditis, Saccharomyces

Western blot analysis of different cell fractions lysates using mouse mAb to fibrillar protein, MCA-38F3, dilution 1:500 in green: [1] protein standard, [2] C6 cytosol, [3] C6 nuclear, [4] HEK293 cytosol, [5] HEK293 nuclear, [6] NIH-3T3 cytosol and [7] NIH-3T3 nuclear fractions. The band at ~35kDa corresponds to fibrillar protein detected exclusively in nuclear fractions.

Amount	Price
200µL	\$120
500µL	\$200
2,500µL	\$800

Concentrated hybridoma cell culture media plus 5mM NaN3



Rabbit pAb to Fibrillar

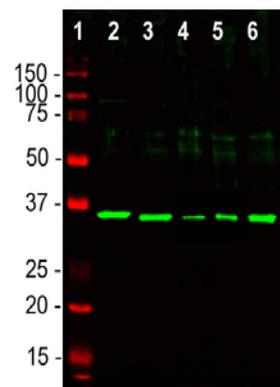
Cat# RPCA-Fib

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FBL	AB_2744517	Full-length human recombinant protein	IgG	34.5kDa	WB: 1:2,000 IF/ICC: 1:2,000	Hu, Rt, Ms, Ho, Do

Western blot analysis of cell lysates using rabbit pAb to fibrillar protein RPCA-Fib, dilution 1:5,000, in green: [1] protein standard (red), [2] NIH-3T3, [3] HEK293, [4] HeLa, [5] SH-SY5Y, [6] C6 and [7] COS1 cells. The strong band at ~35kDa corresponds to the fibrillar protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000

Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3



Chicken pAb to Fibrillar

Cat# CPCA-Fib

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
FBL	AB_2572216	Full-length human recombinant fibrillar protein	IgY	34.5kDa	WB: 1:2,000 IF/ICC: 1:2,000	Hu, Rt, Ms, Co, Pi, Ho, Do, Ch

Western blot analysis of different cell lysates using chicken pAb to fibrillar protein CPCA-Fib, dilution 1:5,000, in green: [1] protein standard (red), [2] NIH-3T3, [3] HEK293, [4] HeLa, [5] SH-SY5Y and [6] C6 cells. The single strong band at ~35kDa corresponds to the fibrillar protein.

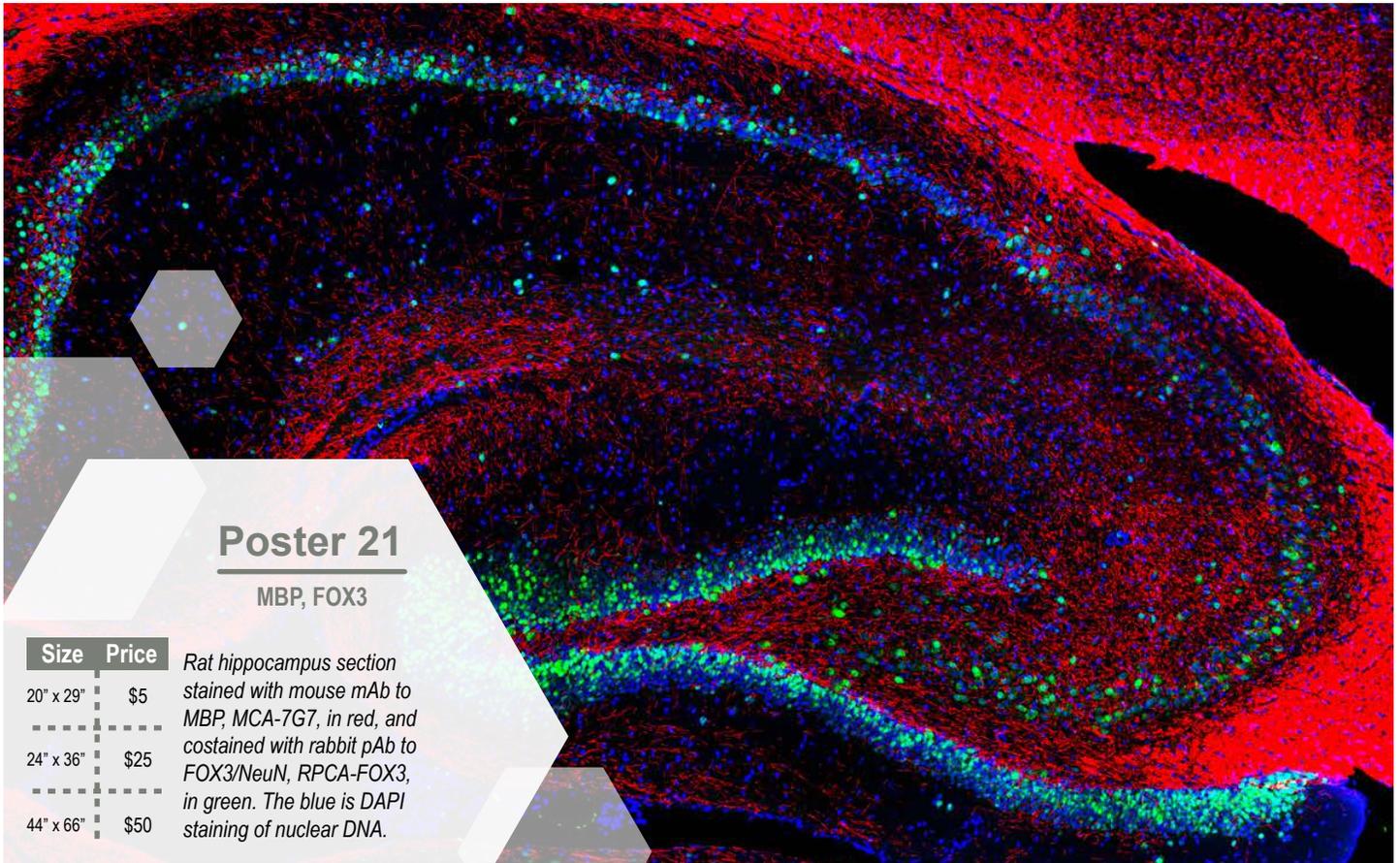
Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

Concentrated IgY preparation in PBS, 5mM NaN3

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Abbreviation Key:

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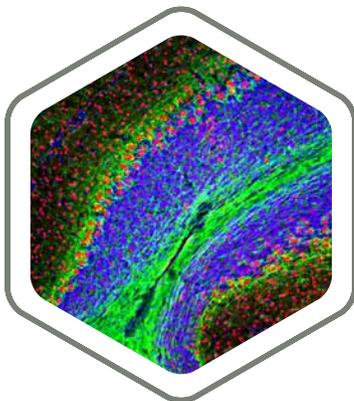
Poster 21

MBP, FOX3

Size Price

20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

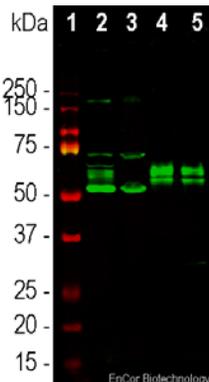
Rat hippocampus section stained with mouse mAb to MBP, MCA-7G7, in red, and costained with rabbit pAb to FOX3/NeuN, RPCA-FOX3, in green. The blue is DAPI staining of nuclear DNA.



Mouse cerebellum section stained with chicken pAb to FOX2, CPCA-FOX2, in red, and costained with mouse mAb to NF-L, MCA-7D1, in green. The blue is Hoechst staining of nuclear DNA.

FOX2

FOX2 also known as RBFOX2, RBM9, RTA and HRNBP2 is one of a family of mammalian homologues of FOX-1 which was originally discovered in *C. elegans*. The 3 mammalian homologues, FOX1, FOX2 and FOX3 all contain an almost identical central RNA recognition motif. FOX2 is expressed in muscle and neuronal cells and regulates mRNA splicing in those highly differentiated cell types. Multiple transcript variants encoding different isoforms have been found for this gene. In the brain FOX2 is expressed in the most neuronal nuclei, including Purkinje cells, which are FOX3/NeuN negative. Antibodies to FOX2 can be used to add to the utility of FOX3/NeuN antibodies to identify and count neurons.



Chicken pAb to FOX2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
RBFOX2	AB_2744538	Full-length human recombinant protein	IgY	~50kDa	WB:1:1,000, IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Cat# CPCA-FOX2

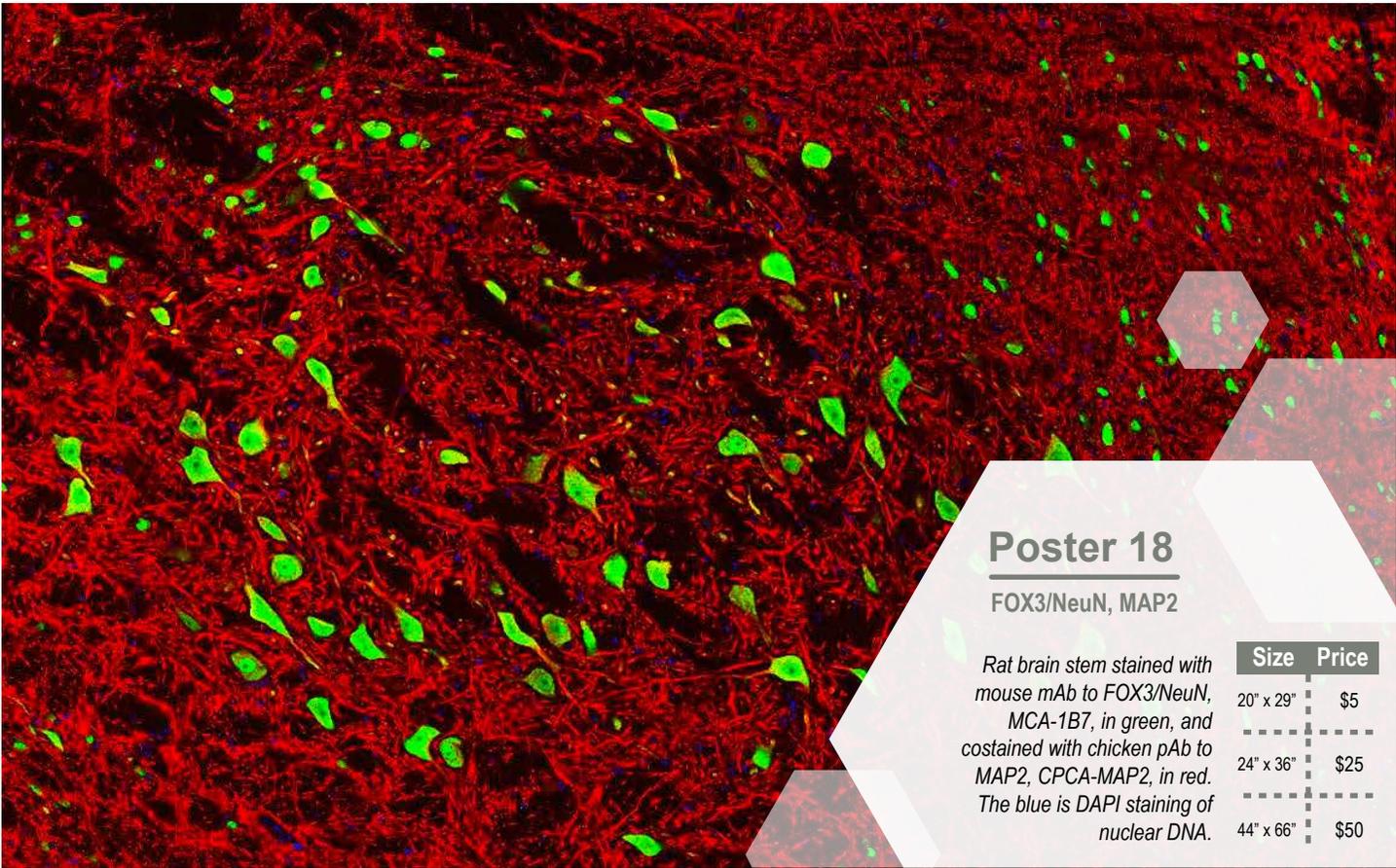
Western blot analysis of nuclear enriched fractions from different tissue and cells using chicken pAb to FOX2, CPCA-FOX2, in green: [1] protein standard, [2] rat brain, [3] mouse brain, [4] HEK293 and [5] NIH-3T3 cells. The bands between 50kDa and 75kDa correspond to the different isoforms of FOX2 protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

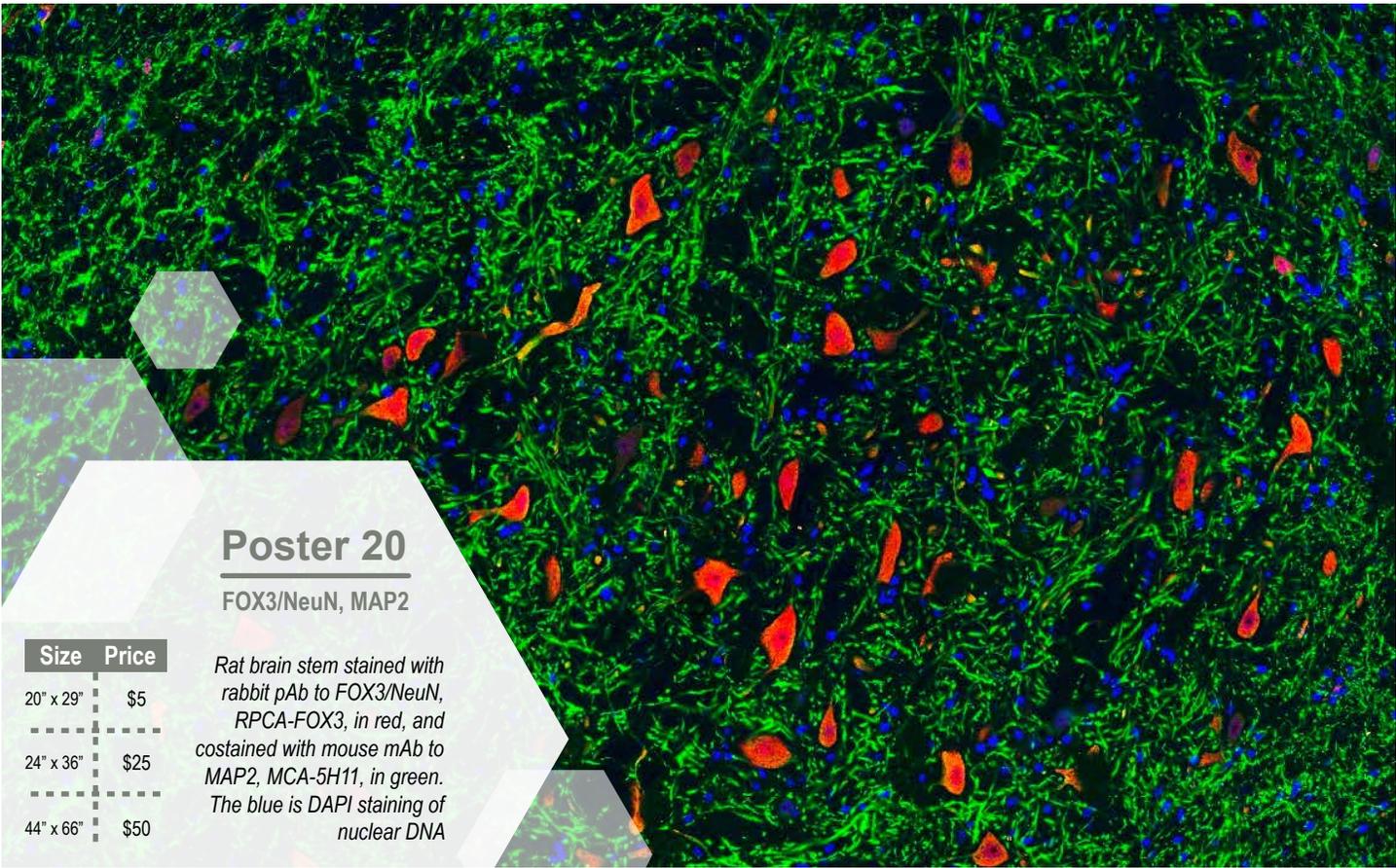


Poster 18

FOX3/NeuN, MAP2

Rat brain stem stained with mouse mAb to FOX3/NeuN, MCA-1B7, in green, and costained with chicken pAb to MAP2, CPCA-MAP2, in red. The blue is DAPI staining of nuclear DNA.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50



Poster 20

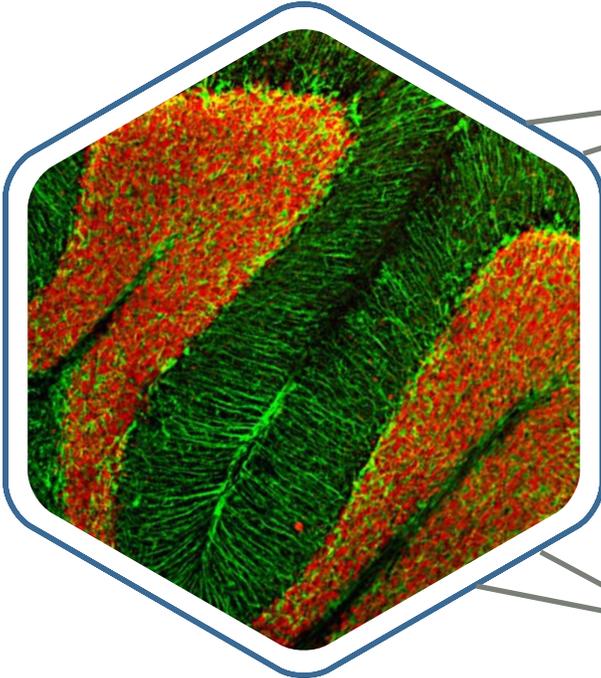
FOX3/NeuN, MAP2

Rat brain stem stained with rabbit pAb to FOX3/NeuN, RPCA-FOX3, in red, and costained with mouse mAb to MAP2, MCA-5H11, in green. The blue is DAPI staining of nuclear DNA.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

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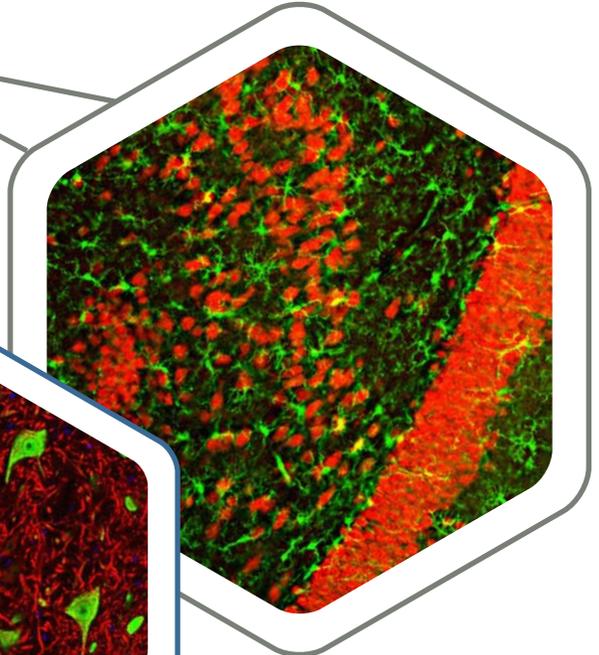
Mouse cerebellum section stained with rabbit pAb to FOX3/NeuN, RPCA-FOX3, in red, and costained with chicken pAb to GFAP, CPCA-GFAP, in green.



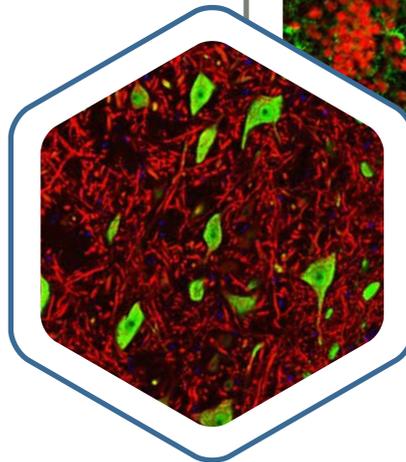
FOX3/NeuN

For many years scientists have utilized a monoclonal antibody to a protein called NeuN, for "Neuronal Nuclei". The molecular identity of NeuN was unknown for many years but is now shown to correspond to FOX3, an RNA binding protein, which is heavily and specifically expressed in most neuronal nuclei and cytoplasm, excluding cerebellar Purkinje cells and a few other numerically minor neuron types. We made specific antibodies to FOX3 using recombinant human FOX3. These antibodies are very useful to monitor neuronal development, identify neurons and measure the neuron/glia ratio in brain regions.

Rat hippocampus section stained with chicken pAb to FOX3/NeuN, CPCA-FOX3, in red, and costained with rabbit pAb to IBA1, RPCA-IBA1, in green.



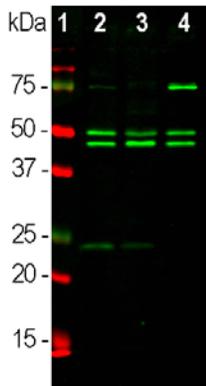
Rat brain section stained with mouse mAb to FOX3/NeuN, MCA-1B7, in green, and costained with chicken pAb to MAP2, CPCA-MAP2, in red. The blue is DAPI staining of nuclear DNA.



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Abbreviation Key:

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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



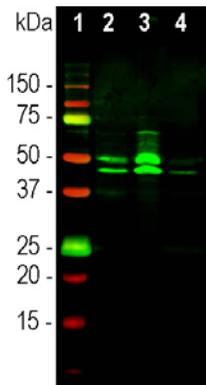
Mouse mAb to FOX3/NeuN

Cat# MCA-1B7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
RBFOX3	AB_2572267	N-terminal 100 amino acids of human FOX3	IgG2bt	46, 48kDa	WB: 1:1,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of brain tissue lysates using mouse mAb to FOX3/NeuN MCA-1B7, dilution 1:1,000 in green: [1] protein standard (red), [2] adult rat brain, [3] embryonic E20 rat brain, [4] adult mouse brain. Note the strong twin bands corresponding to the two alternate transcripts of FOX3/NeuN protein with apparent SDS-PAGE molecular weights of 46kDa and 48kDa.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



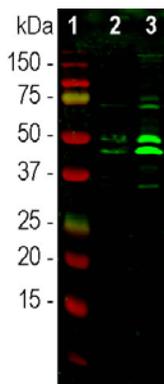
Rabbit pAb to FOX3/NeuN

Cat# RPCA-FOX3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
RBFOX3	AB_2572282	N-terminal 100 amino acids of human FOX3	IgG	46, 48kDa	WB: 1:2,000 IF/IHC: 1:5,000	Hu, Rt, Ms, Co

Western blot analysis of brain lysates using rabbit pAb to FOX3/NeuN, RPCA-FOX3, dilution 1:2,000 in green: [1] protein standard, [2] rat brain nuclear extract, [3] mouse brain nuclear extract, and [4] cow cortex extract. Bands at 46kDa and 48kDa correspond to different isoforms of the FOX3/NeuN protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to FOX3/NeuN

Cat# CPCA-FOX3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
RBFOX3	AB_2216401	N-terminal 100 amino acids of human FOX3	IgY	46, 48kDa	WB: 1:2,000 IF/IHC: 1:5,000	Hu, Rt, Ms

Western blot analysis of brain lysates using chicken pAb to FOX3/NeuN, CPCA-FOX3, dilution 1:2,000 in green: [1] protein standard, [2] rat brain nuclear extract, [3] mouse brain nuclear extract. Bands at 46-48kDa correspond to different isoforms of the FOX3/NeuN protein.

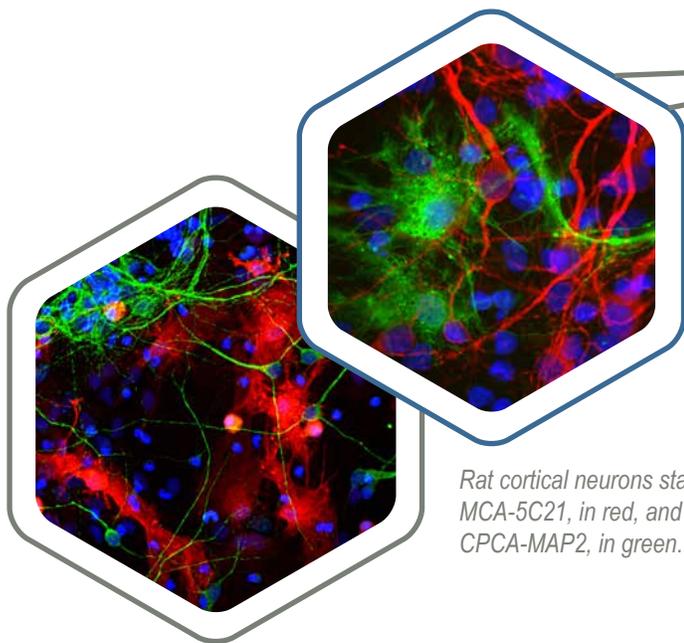
Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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Abbreviation Key:

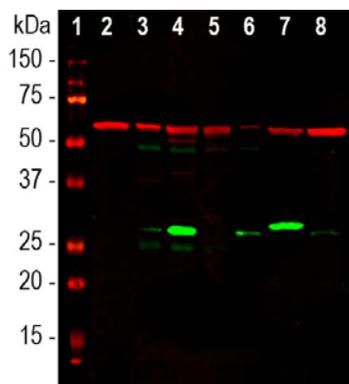
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Galectin 3 is a member of a multigene family of 15 vertebrate lectins, all of them share one or in some cases two "carbohydrate recognition domains" that bind to β -galactoside found coupled to cell surface proteins. A number of studies suggest that Galectin 3 has an important role in the regulation of inflammatory responses and fibrogenesis. In the brain it is expressed in microglia and certain astrocytes. Antibodies to this protein can therefore be used to study inflammation within and outside the brain.



Rat cortical neurons stained with rabbit pAb to galectin 3, RPCA-Gal3, in green, and costained with mouse mAb to MAP2, MCA-4H5, in red. The blue is Hoechst staining of nuclear DNA.

Rat cortical neurons stained with mouse mAb to galectin 3, MCA-5C21, in red, and costained with chicken pAb to MAP2, CPCA-MAP2, in green. The blue is Hoechst staining of nuclear DNA.



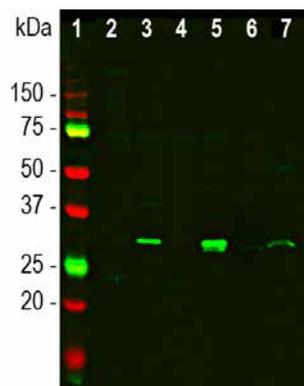
Mouse mAb to Galectin 3

Cat# MCA-5C21

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
LGALS3	AB_2572283	Full-length human recombinant protein	IgG1	30kDa	WB: 1:2,000 IF/ICC: 1:1,000	Hu, Rt, Co, Pi

Western blot analysis of different tissue and cell lysates using mouse mAb to galectin 3, MCA-5C21, dilution 1:2,000 in green: [1] protein standard, [2] mouse brain lysate, rat tissue lysates: [3] brain, [4] liver, [5] heart, [6] kidney, [7] lung, and [8] HEK293 cell lysate. The same blot was simultaneously probed with chicken pAb to HSP60, CPCA-HSP60, dilution 1:20,000, in red, which reveals 60kDa band in all preparations.

Amount	Price
50 μ L	\$120
100 μ L	\$200
500 μ L	\$800



Rabbit pAb to Galectin 3

Cat# RPCA-Gal3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
LGALS3	AB_2737423	Full-length human recombinant protein	IgG	30kDa	WB: 1:5,000 IF/IHC: 1:2,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue and cell lysates using rabbit pAb to galectin 3, RPCA-Gal3, dilution 1:5,000 in green: [1] protein standard, mouse tissue lysates: [2] heart, [3] liver, [4] kidney, [5] lung, [6] rat cortical neuron-glia primary cell culture lysate, and [7] pig spinal cord. The band at about 30kDa corresponds to the galectin 3 protein.

Amount	Price
50 μ L	\$120
100 μ L	\$200
500 μ L	\$800

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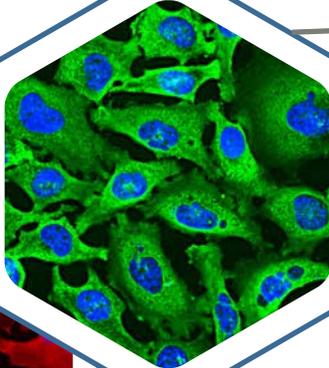
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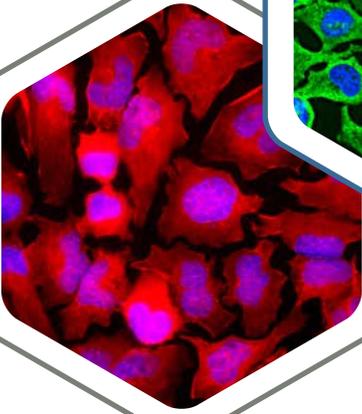
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) is an abundant metabolic enzyme responsible for catalyzing one of the steps in the glycolytic pathway, the reversible oxidative phosphorylation of glyceraldehyde 3-phosphate. GAPDH participates in numerous cellular functions such as nuclear tRNA export, DNA replication and repair, endocytosis, exocytosis, cytoskeletal organization, carcinogenesis, and cell death. GAPDH antibodies and probes for GAPDH mRNA are frequently used as standards to compare the relative levels of expression of proteins or mRNAs of interest. Our antibodies have been widely used for this purpose.

GAPDH

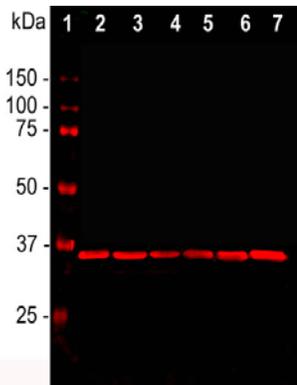
Glyceraldehyde
3-Phosphate
dehydrogenase



HeLa cell culture stained with mouse mAb to GAPDH, MCA-1D4, in green. The blue is Hoechst staining of nuclear DNA.



HeLa cell culture stained with rabbit pAb to GAPDH, RPCA-GAPDH, in red. The blue is Hoechst staining of nuclear DNA.



Mouse mAb to GAPDH

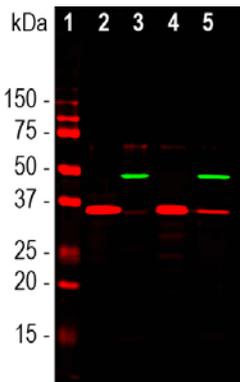
Cat# MCA-1D4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GAPDH	AB_2107599	Full length protein purified from pig blood cells	IgM	37kDa	WB: 1:5,000 IF/ICC: 1:1,000	Hu, Rt, Ms, Co, Mo, Ho, Do, Pi

Western blot analysis of cell line lysates probed with mouse mAb to GAPDH, MCA-1D4, dilution 1:5,000: [1] protein standard, [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS1, [6] NIH-3T3 and [7] C6 cells. The GAPDH antibody reveals a single band at ~37kDa in all cell lines.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Rabbit pAb to GAPDH

Cat# RPCA-GAPDH

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GAPDH	AB_2572289	Purified native porcine protein	IgG	36kDa	WB: 1:20,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Mo, Pi, Ch, Do, Ho

Western blot analysis of different cell cytosolic or nuclear enriched fractions, using rabbit pAb to GAPDH, RPCA-GAPDH, in red : [1] protein standard, [2] NIH-3T3 cytosolic, [3] NIH-3T3 nuclear, [4] HeLa cytosolic and [5] HeLa nuclear fractions. The band at 37kDa corresponds to GAPDH protein, mainly detected in the cytosolic fractions. The same blot was simultaneously probed with mouse mAb to the nuclear protein SF3B4, MCA-3A1, in green.

Serum + 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

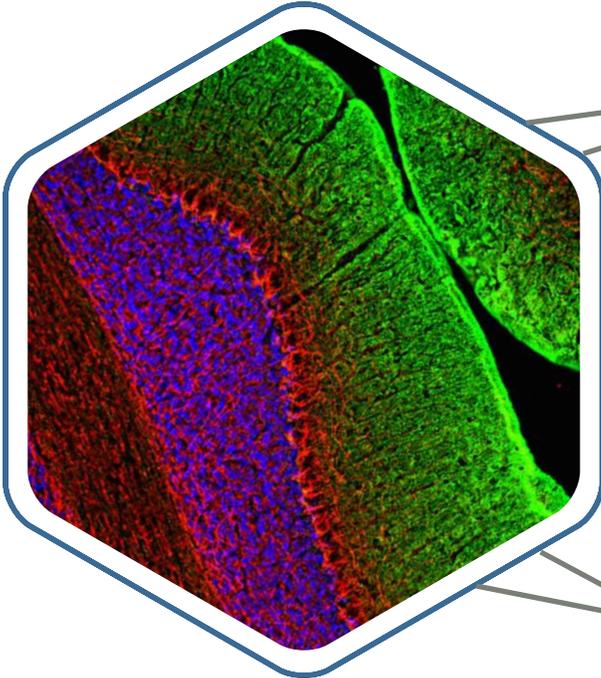
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Rat cerebellum section stained with mouse mAb to GAP43, MCA-3H14, in green, and costained with rabbit pAb to NF-M, RPCA-GAP43, in red. The blue is Hoechst staining of nuclear DNA.

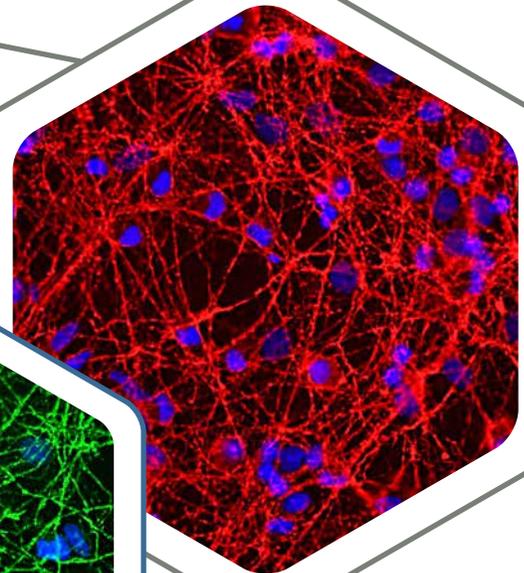


GAP43

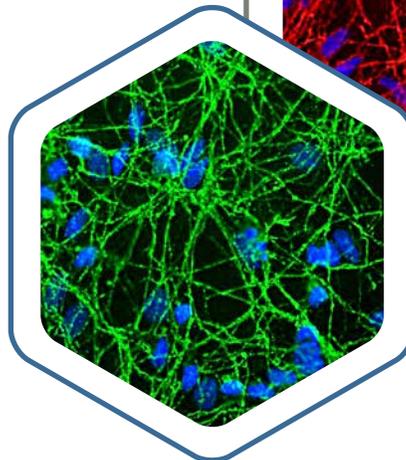
Growth Associated
 Protein 43

Growth associated protein 43 (GAP43) is very abundant protein which is concentrated in the axons and synapses of neurons. It was discovered as a rapidly transported axonal protein that is highly upregulated after sciatic nerve injury. GAP43 is a presynaptic phosphoprotein involved in neurodevelopment, plasticity and injury response. The real molecular weight of GAP43 is a 24kDa, but due to its highly charged nature it runs much more slowly on SDS-PAGE gels. The apparent molecular weight of the protein is 43kDa, hence the name GAP43. GAP43 antibodies are very useful for identifying synapses, axons, and monitoring neuronal plasticity.

Rat cortical neuron-glia cell culture stained with mouse mAb to GAP43, MCA-5E8, in red. The blue is Hoechst staining of nuclear DNA.



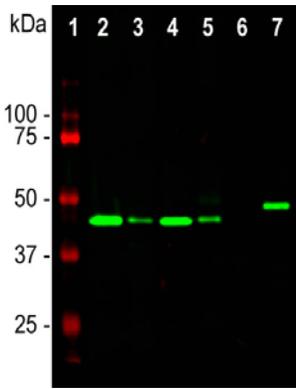
Rat cortical neuron-glia cell culture stained with chicken pAb to GAP43, CPCA-GAP43, in green. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



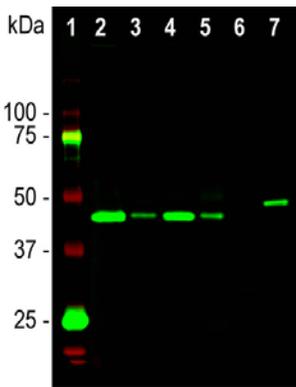
Mouse mAb to GAP43

Cat# MCA-3H14

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GAP43	AB_2572286	Full-length human recombinant protein	IgM	43kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of different tissue and cell lysates using mouse mAb to GAP43, MCA-3H14, dilution 1:5,000, in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] C6 cells and [7] SH-SY5Y cells. The single band at the 43kDa mark corresponds to the GAP43 protein. The protein is expressed in rodent and human neurons and neuronal derived cells..

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



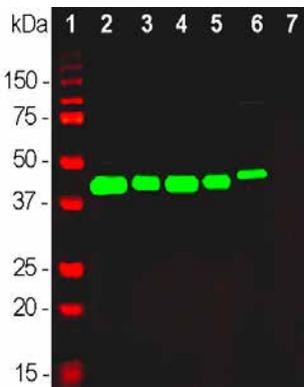
Mouse mAb to GAP43

Cat# MCA-5E8

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GAP43	AB_2572287	Full-length human recombinant protein	IgG1	43kDa	WB: 1:2,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of tissue and cell lysates using mouse mAb to GAP43, MCA-5E8, dilution 1:2,000, in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] C6 cells and [7] SH-SY5Y cells. The single band at 43kDa corresponds to GAP43 protein. The protein is expressed in rodent and human neurons and neuronal derived cells.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



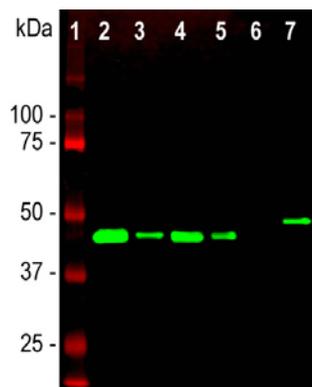
Rabbit pAb to GAP43

Cat# RPCA-GAP43

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GAP43	AB_2572288	C-terminal peptide of rodent GAP43, KEDPEADQEHA	IgG	43kDa	WB: 1:10,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi, Ho, Ch

Western blot analysis of different tissue and cell lysates using rabbit pAb to GAP43, RPCA-GAP43, dilution 1:20,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] SH-SY5Y cells and [7] C6 cells. The single band at the 43kDa mark corresponds to GAP43 protein. The GAP43 protein is detected only in the lysates of neuronal origin.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to GAP43

Cat# CPCA-GAP43

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GAP43	AB_2572284	C-terminal peptide of rodent GAP43, KEDPEADQEHA	IgY	43kDa	WB: 1:5,000 IF/IHC: 1:500	Hu, Rt, Ms, Co, Pi, Ho, Ch

Western blot analysis of different tissue and cell lysates using chicken pAb to GAP43, CPCA-GAP43, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] C6 cells and [7] SH-SY5Y cells. The single band at the 43kDa mark corresponds to GAP43 protein. The GAP43 protein is detected only in the lysates of neuronal origin..

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

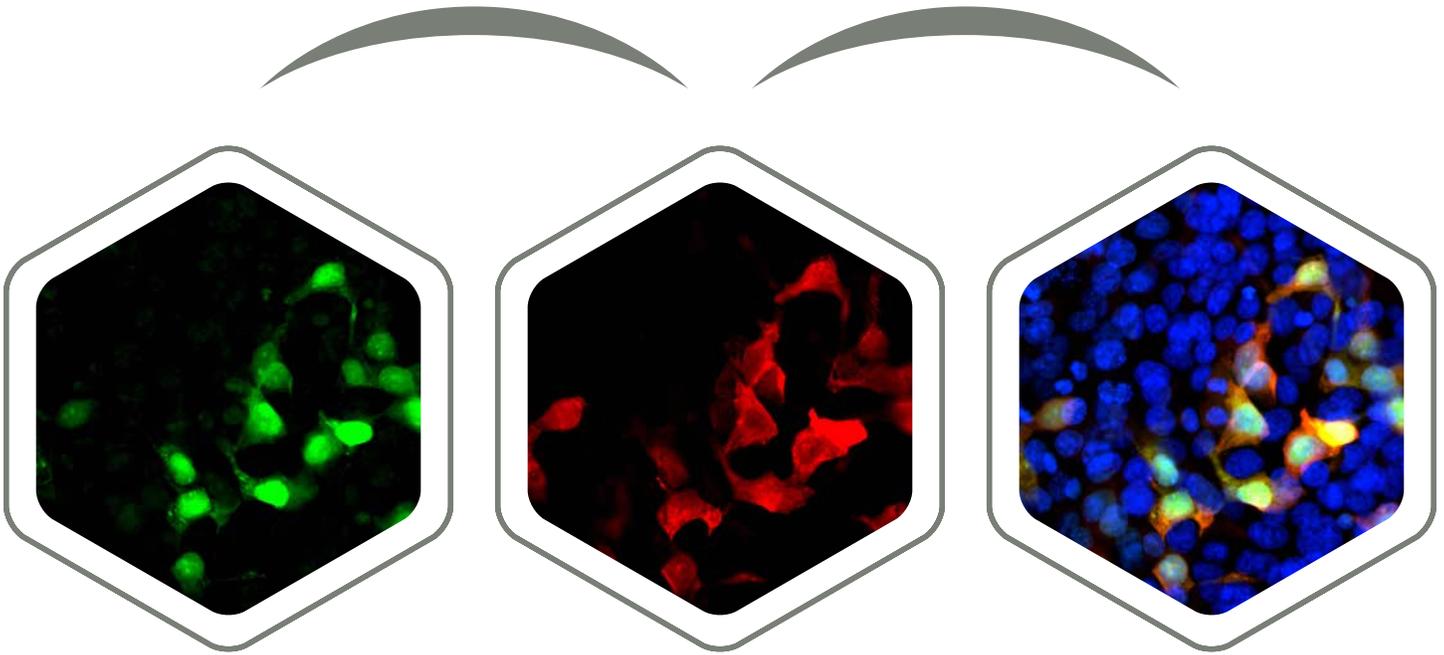
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Abbreviation Key:

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Green Fluorescent Protein

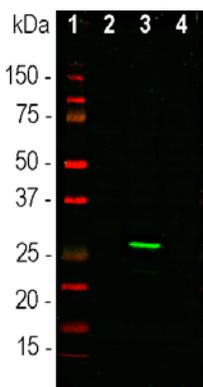
Green Fluorescent Protein (GFP) is a ~27 kDa protein originally isolated from the jellyfish *Aequoria victoria*. It exhibits bright green fluorescence when exposed to light. Fluorescent proteins such as GFP are usually harmless when illuminated in living cells, they can be expressed in essentially any prokaryotic or eukaryotic cell. GFP and their derivatives are widely used as fluorescent tracers in transfection and transgenic experiments to monitor gene expression and protein localization. Only those cells in which the tagged gene is expressed, or the target proteins are produced, will fluoresce when observed under fluorescence microscopy. The GFP antibodies can be used to verify the expression of GFP fusion proteins in western blot experiments, and to amplify GFP signals in transfected or transduced cells.



HEK293 cell culture transfected with GFP construct. Transfected cells are bright green.

HEK293 cell culture transfected with GFP construct stained with goat pAb to GFP, GPCA-GFP, in red

HEK293 cell culture transfected with GFP construct stained with goat pAb to GFP, GPCA-GFP. Transfected cells stained with the GFP antibody appear in yellow/orange, The blue is Hoechst staining of nuclear DNA.



Goat pAb to GFP

Cat# GPCA-GFP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2737371	Recombinant GFP protein	IgG	27kDa	WB: 1:1,000, IF/ICC & IHC 1:1,000	N/A

Western blot analysis of HEK293 cell lysates using goat pAb to GFP, GPCA-GFP, dilution 1:1,000, in green: [1] protein standard, [2] control non-transfected cells, [3] cells transfected with GFP construct, and [4] cells transfected with mCherry construct. Strong band at ~27kDa corresponds to GFP protein.

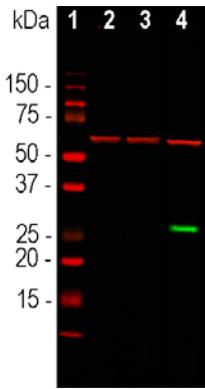
Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$250
500µL	\$800

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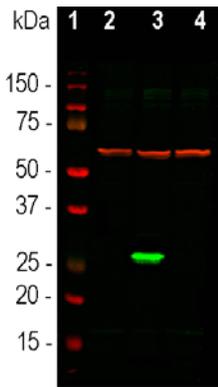
Mouse mAb to GFP

Cat# MCA-1F1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572315	Recombinant GFP protein	IgM	27kDa	WB: 1:1,000, IF/ICC & IHC 1:1,000	N/A

Western blot analysis of HEK293 cell lysates using mouse mAb to GFP, MCA-1F1, in green, dilution 1:1,000, and chicken pAb to HSP60, CPCA-HSP60, dilution 1:10,000, in red. [1] protein standard, [2] control non-transfected cells, [3] cells transfected with mCherry construct, and [4] cells transfected with GFP construct. Strong green band at ~27kDa corresponds to GFP protein. The 60kDa bands in all lanes are HSP60 protein.

Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	
50µL	\$120
100µL	\$200
500µL	\$800



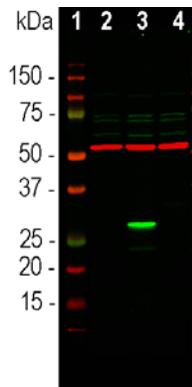
Mouse mAb to GFP

Cat# MCA-3B11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572316	Recombinant GFP protein	IgM	27kDa	WB: 1:1,000, IF/ICC & IHC 1:1,000	N/A

Western blot analysis of HEK293 cell lysates using mouse mAb to GFP, MCA-3B11, in green, dilution 1:1,000, and chicken pAb to HSP60, CPCA-HSP60, dilution 1:10,000, in red. [1] protein standard, [2] control non-transfected cells, [3] cells transfected with GFP construct, and [4] cells transfected with mCherry construct. Strong green band at ~27kDa corresponds to GFP protein. The 60kDa bands in all lanes are HSP60 protein.

Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	
50µL	\$120
100µL	\$200
500µL	\$800



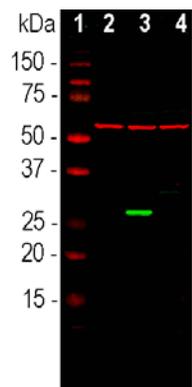
Rabbit pAb to GFP

Cat# RPCA-GFP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572327	Recombinant GFP protein	IgG	27kDa	WB: 1:2,000, IF/ICC & IHC 1:2,000	N/A

Western blot analysis of HEK293 cell lysates using rabbit pAb to GFP, RPCA-GFP in green, dilution 1:2,000, and mouse mAb to beta-tubulin, MCA-4E4, dilution 1:10,000, in red. [1] protein standard, [2] control non-transfected cells, [3] cells transfected with GFP construct, and [4] cells transfected with mCherry construct. Strong green band at ~27kDa corresponds to GFP protein. The ~50kDa red bands represent the beta-tubulin protein.

Amount	Price
Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to GFP

Cat# CPCA-GFP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572314	Recombinant GFP protein	IgY	27kDa	WB: 1:1,000, IF/ICC & IHC 1:1,000	N/A

Western blot analysis of HEK293 cell lysates using chicken pAb to GFP, CPCA-GFP in green, dilution 1:1,000, and mouse mAb to vimentin, MCA-2A52, dilution 1:10,000, in red. [1] protein standard, [2] control non-transfected cells, [3] cells transfected with GFP construct, and [4] cells transfected with mCherry construct. Strong green band at ~27kDa corresponds to GFP protein. The 50kDa red bands represent vimentin protein.

Amount	Price
Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	
50µL	\$150
100µL	\$250
500µL	\$1,000

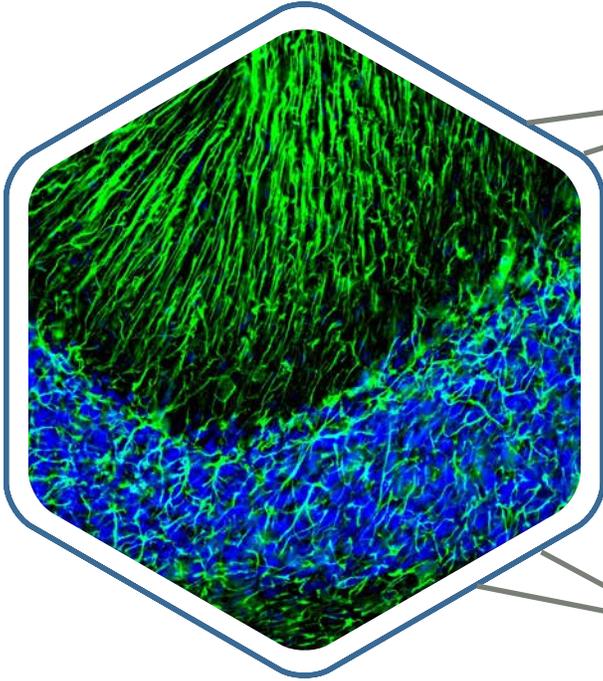
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Rat cerebellum section stained with chicken pAb to GFAP, CPCA-GFAP, in green. The blue is Hoechst staining of nuclear DNA.

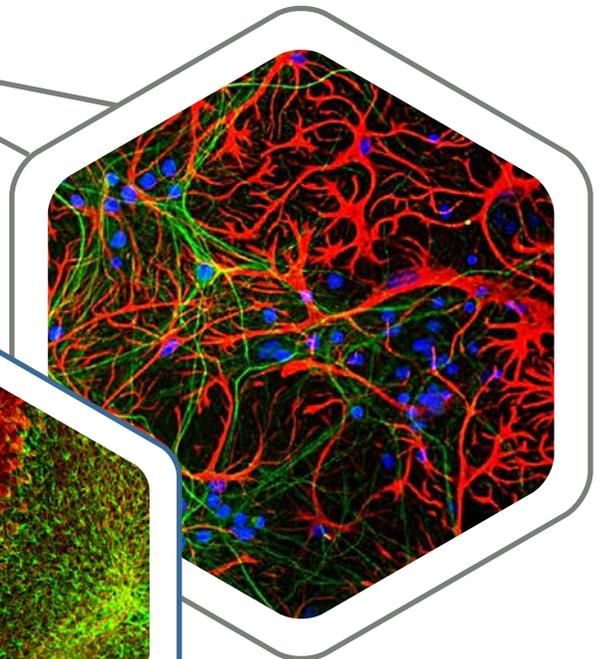


GFAP

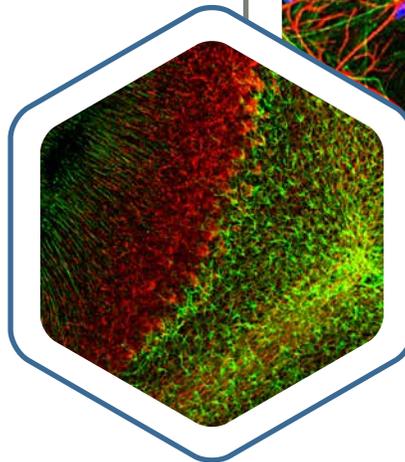
Glial-Fibrillary Acidic Protein

Glial Fibrillary Acidic Protein (GFAP) is an intermediate filament sub-unit expressed in astrocytes, Bergmann glia, and certain other glia in the central nervous system, in satellite cells in peripheral ganglia, and in non-myelinating Schwann cells in peripheral nerves. GFAP expression is also seen in developing neural stem cells. GFAP levels may greatly be increased in regions of CNS injury or disease. GFAP antibodies work well on WB, IF, ICC, IHC, and ELISA

Rat Cortical neuron-glia cell culture stained with mouse mAb to GFAP, MCA-5C10, in red, and costained with chicken pAb to NF-L, CPCA-NF-L, in green. The blue is Hoechst staining of nuclear DNA.



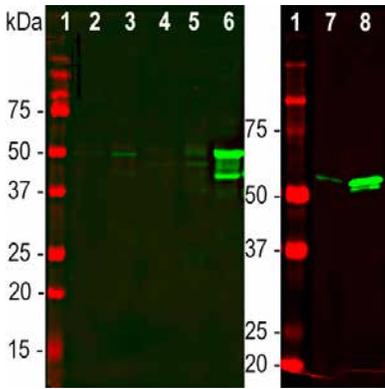
Rat cerebellum section stained with mouse mAb to GFAP, MCA-5C10, in green, and costained with rabbit pAb to NF-L, RPCA-NF-L in red.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



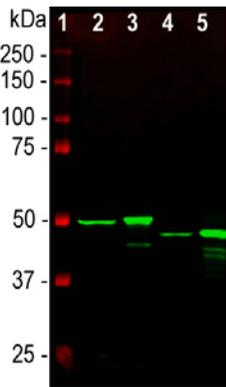
Mouse mAb to GFAP

Cat# MCA-2A5

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GFAP	AB_2732880	Purified GFAP from porcine spinal cord	IgG1	50kDa	WB: 1:2,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates and recombinant proteins solutions using mouse mAb to GFAP, MCA-2A5, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] pig brain, [7] rat recombinant GFAP, [8] human recombinant GFAP. Bands around 50kDa correspond to alternative transcripts and proteolytic products of GFAP.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



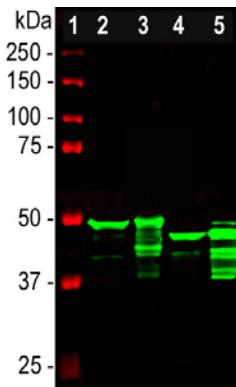
Mouse mAb to GFAP

Cat# MCA-5C10

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GFAP	AB_2572311	Purified GFAP from porcine spinal cord	IgG1	50kDa	WB: 1:2,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of whole tissue lysates using mouse mAb to GFAP, MCA-5C10, dilution 1:2,000, in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. The strong band at about 50kDa corresponds to the GFAP protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



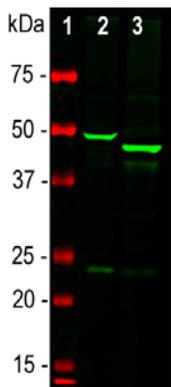
Rabbit pAb to GFAP

Cat# RPCA-GFAP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GFAP	AB_2572310	Full-length human recombinant GFAP protein	IgG	50kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of different tissue lysates using rabbit polyclonal antibody to GFAP, RPCA-GFAP, dilution 1:5,000 in green: [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. Strong band at about 50kDa corresponds to the major isotype of the GFAP protein. Smaller isotypes and proteolytic fragments of GFAP are also detected on the blot.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Chicken pAb to GFAP

Cat# CPCA-GFAP

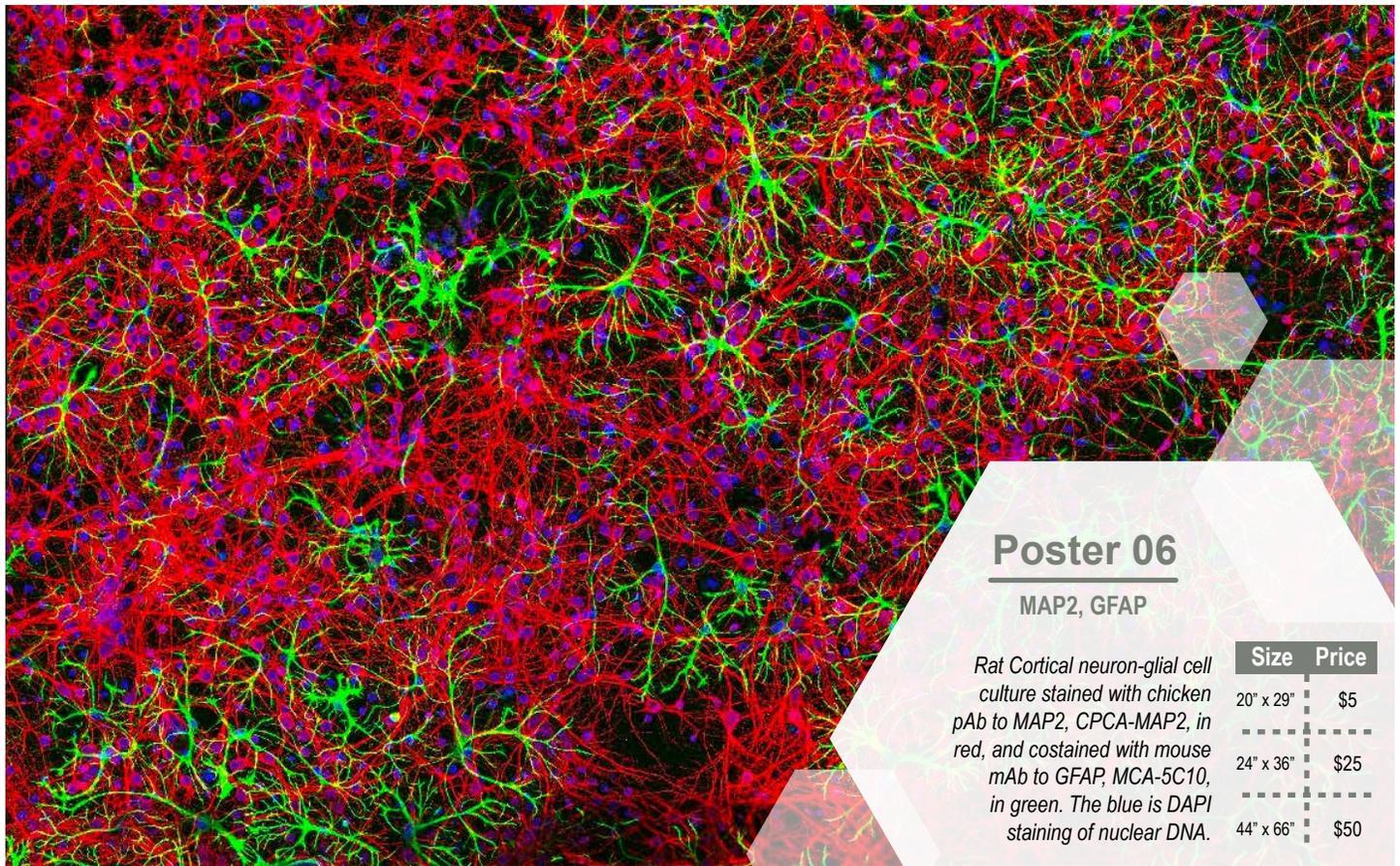
HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
GFAP	AB_2109953	Full-length human recombinant GFAP isotype1	IgY	50kDa	WB: 1:5,000 IF/IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of whole brain lysates using chicken pAb to GFAP, CPCA-GFAP, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] mouse brain. The strong band at about 50kDa corresponds to the GFAP protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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Abbreviation Key:
 mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

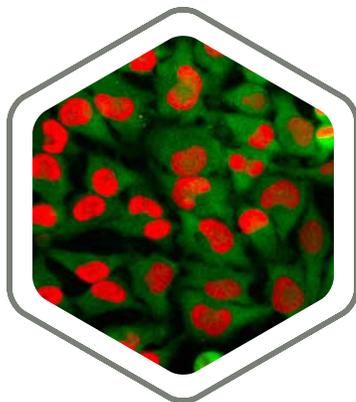


Poster 06

MAP2, GFAP

Rat Cortical neuron-glia cell culture stained with chicken pAb to MAP2, CPCA-MAP2, in red, and costained with mouse mAb to GFAP, MCA-5C10, in green. The blue is DAPI staining of nuclear DNA.

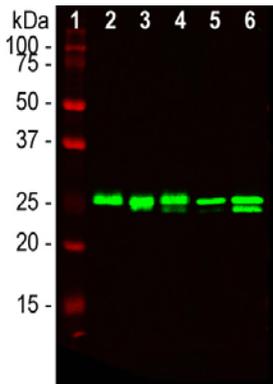
Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50



HeLa cell culture stained with mouse mAb to HMGB1, MCA-1F3, in red, and costained with rabbit pAb to GAPDH, RPCA-GAPDH, in green.

HMGB1

High-mobility group proteins were named originally since they are abundant, relatively low molecular weight proteins with "high mobility", in other words, they run quickly on SDS-PAGE gels. High-mobility group proteins box 1 (HMGB1) is one of them. The "box" in the name refers to the so-called high mobility group box, a compact domain involved in DNA binding and protein-protein interactions. The HMGB1 molecule is normally located in the nucleus where it associates with chromatin and DNA.



Mouse mAb to HMGB1

Cat# MCA-1F3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
HBGB1	AB_2572333	Full-length human recombinant protein	IgG2b	IgG2b	WB: 1:1,000 IF/ICC: 1:1,000	Hu, Rt, Ms

Western blot analysis of lysates from different cell lines probed with mouse mAb to high mobility group protein box 1, (HMGB1), MCA-1F3, dilution 1:2,000: [1] protein standard, [2] NIH-3T3, [3] C6, [4] HEK293, [5] HeLa and [6] SH-SY5Y. The 25kDa band revealed by MCA-1F3 antibody, corresponds to HMGB1 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
	100µL	\$200
	500µL	\$800

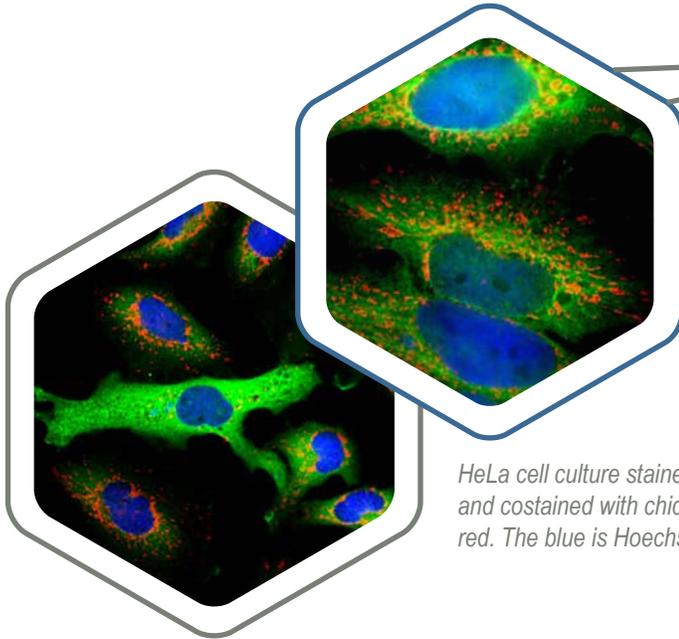
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Abbreviation Key: mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

The heat shock proteins were discovered since they are heavily upregulated when cells are stressed by temperatures above the normal physiological range. They are expressed in unstressed cells also and have a normal function as chaperones, helping other proteins to fold correctly, but are required in much greater amounts if the cell or tissue is stressed by heat. The HSP27 antibodies were made against a recombinant form of the human protein. They do not recognize the rodent HSP27 protein, and so can be used to identify human cells in a background of rodent cells.

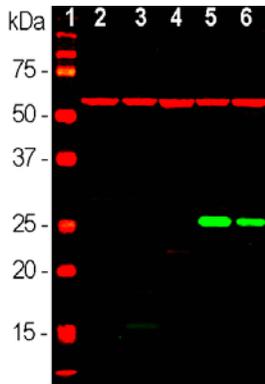
HSP27

Heat Shock
Protein 27



HeLa cell culture stained with chicken pAb to HSP27, CPCA-HSP27, in green, and costained with mouse mAb to HSP60, MCA-1C7, in red. The blue is Hoechst staining of nuclear DNA.

HeLa cell culture stained with mouse mAb to HSP27, in green, and costained with chicken pAb to HSP60, CPCA-HSP60, in red. The blue is Hoechst staining of nuclear DNA.



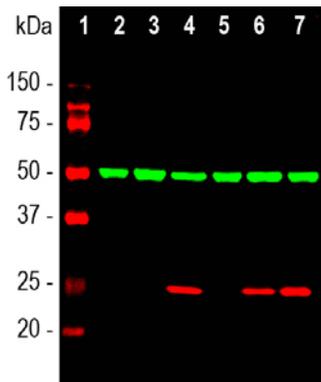
Mouse mAb to HSP27

Cat# MCA-6H11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
HSBP1	AB_2572329	Full-length human recombinant protein	IgG1	27kDa	WB: 1:10,000 IF/ICC: 1:2,000	Hu, Ho, Do, Mo

Western blot analysis of tissue or whole cell lysates using mouse mAb to HSP27, MCA-6H11, dilution 1:10,000, in green. [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, and [6] SH-SY5Y cells. The strong single band at ~27kDa corresponds to the HSP27 protein. The blot was simultaneously probed with rabbit pAb to HSP-60, RPCA-HSP60, dilution 1:5,000 in red. A strong 60kDa band is present in all preparations.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800



Chicken pAb to HSP27

Cat# CPCA-HSP27

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
HSBP1	AB_2572328	Full-length human recombinant HSP27 protein	IgY	27kDa	WB: 1:2,000 IF/ICC: 1:1,000	Hu, Mo, Ho

Western blot analysis of whole cell lysates using chicken pAb to HSP27, CPCA-HSP27, dilution 1:2,000, in red. [1] protein standard, [2] NIH-3T3, [3] C6, [4] HeLa, [5] HEK293, [6] SH-SY5Y, and [7] COS-1 cells. Strong single band at 27kDa corresponds to the HSP27 protein strongly expressed in human cell lines. The blot was simultaneously probed with β -tubulin, MCA-1B12, dilution 1:10,000 in green. A band at 50kDa corresponds to the β -tubulin protein.

	Amount	Price
Concentrated IgY preparation in PBS, 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800

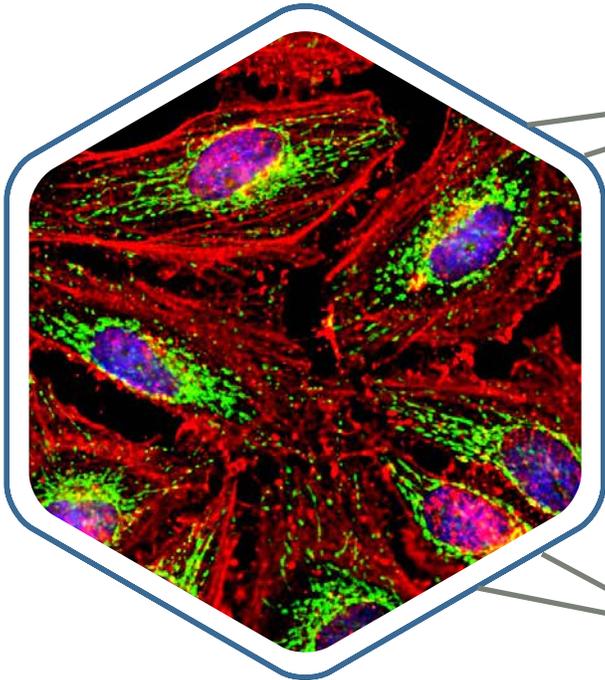
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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

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HeLa cell culture stained with chicken pAb to HSP60, CPCA-HSP60, in green, and costained with mouse mAb to actin, MCA-5J11, in red. The blue is Hoechst staining of nuclear DNA.

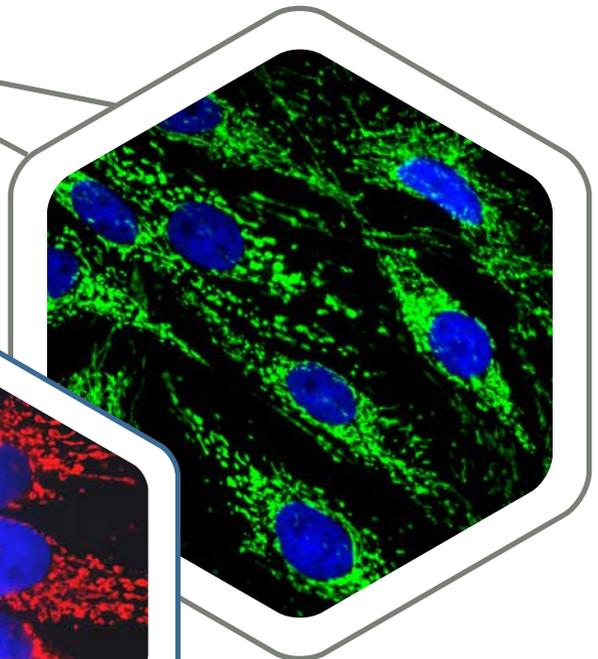


HSP60

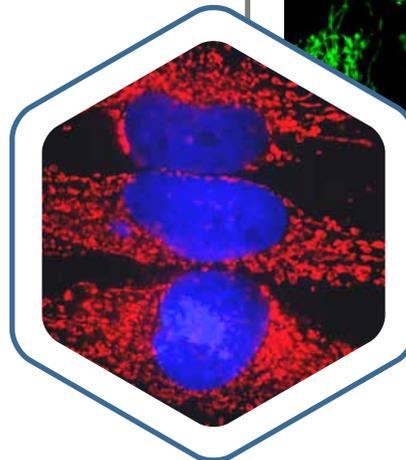
Heat Shock
 Protein 60

The heat shock proteins (HSPs) were originally named based on their SDS-PAGE mobility, so HSP60 has an apparent molecular weight of 60kDa. The HSPs heavily upregulated when cells are exposed to temperatures above the normal physiological range. HSPs are also expressed in unstressed cells, and have a normal function as chaperones, helping other proteins to fold correctly. HSP60 is an abundant protein expressed exclusively in mitochondria, where it is responsible for the transportation of proteins from the cytoplasm into the mitochondrial matrix and refolding them. The HSP60 antibodies work great for ICC producing beautiful images of mitochondria, and for the western blots revealing a single strong 60kDa band.

A72 cell culture stained with rabbit pAb to HSP60, RPCA-HSP60, in green. The blue is Hoechst staining of nuclear DNA.



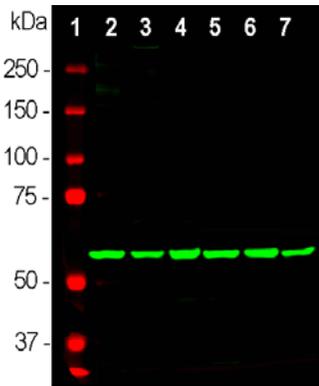
HeLa cell culture stained with mouse mAb to HSP60, MCA-1C7, in red. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



Mouse mAb to HSP60

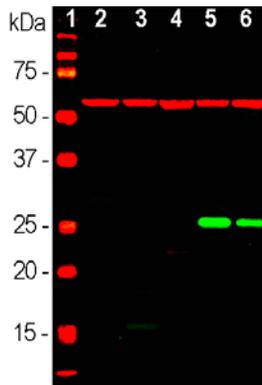
Cat# MCA-1C7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
HSBD1	AB_2572331	Spontaneous auto-antibody	IgG1	60kDa	WB: 1:10,000 IF/ICC: 1:5,000	Hu, Rt, Ms, Co, Pi, Ho, Do, Mo.

Western blot analysis of tissue or whole cell lysates using mouse mAb to HSP60, MCA-1C7, dilution 1:10,000, in green. [1] protein standard (red), [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa and [7] SH-SY5Y cells. Strong single band corresponds to HSP60 protein with apparent SDS-PAGE molecular weight of 60kDa.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Rabbit pAb to HSP60

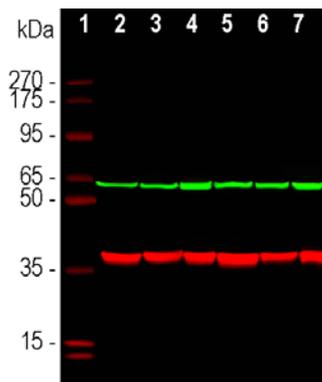
Cat# RPCA-HSP60

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
HSBD1	AB_2572332	Full-length human recombinant HSP60 protein	IgG	60kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Ho, Do, Mo.

Western blot analysis of different tissue or cell lysates using rabbit pAb to HSP-60, RPCA-HSP60, dilution 1:5,000 in red. [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293 and [6] SH-SY5Y cells. The strong 60kDa band present in all preparations corresponds to the HSP60 protein. The blot was simultaneously probed with mouse mAb to HSP27, MCA-6H11, dilution 1:10,000, in green.

Serum + 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Chicken pAb to HSP60

Cat# CPCA-HSP60

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
HSBD1	AB_2572330	Full-length human recombinant HSP60 protein	IgY	60kDa	WB: 1:10,000 IF/ICC: 1:5,000	Hu, Rt, Ms, Ho, Do, Mo

Western blot analysis of different cell lysates using chicken pAb to HSP60, CPCA-HSP60, dilution 1:20,000, in green and mouse mAb to GAPDH, MCA-1D4, dilution 1:5,000, in red: [1] protein standard, [2] HeLa, [3] HEK293, [4] NIH-3T3, [5] SH-SY5Y, [6] C6 and [7] COS1 cells. The single band at 60kDa corresponds to HSP60 protein, and 37kDa single band represents the GAPDH protein.

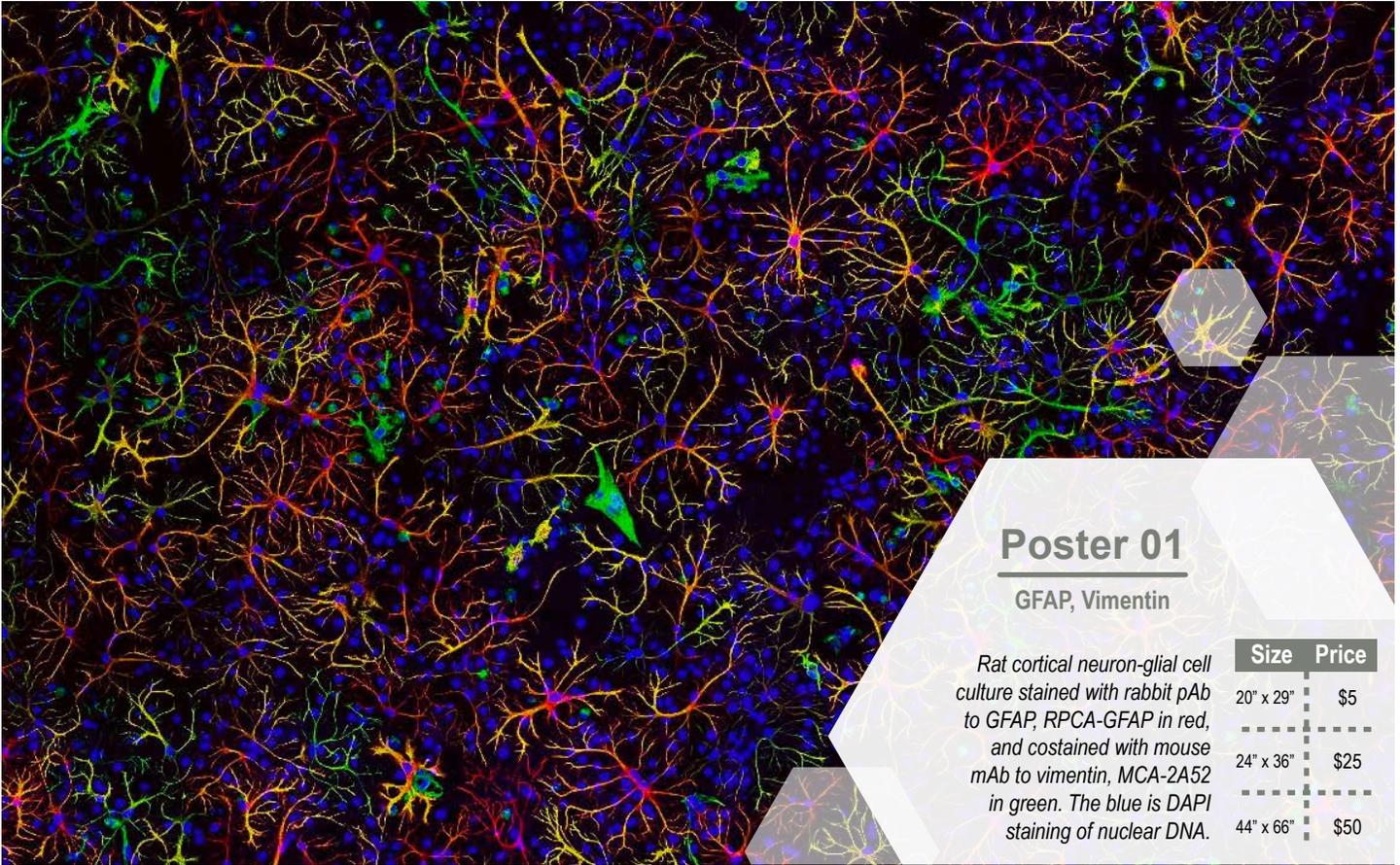
Concentrated IgY preparation in PBS, 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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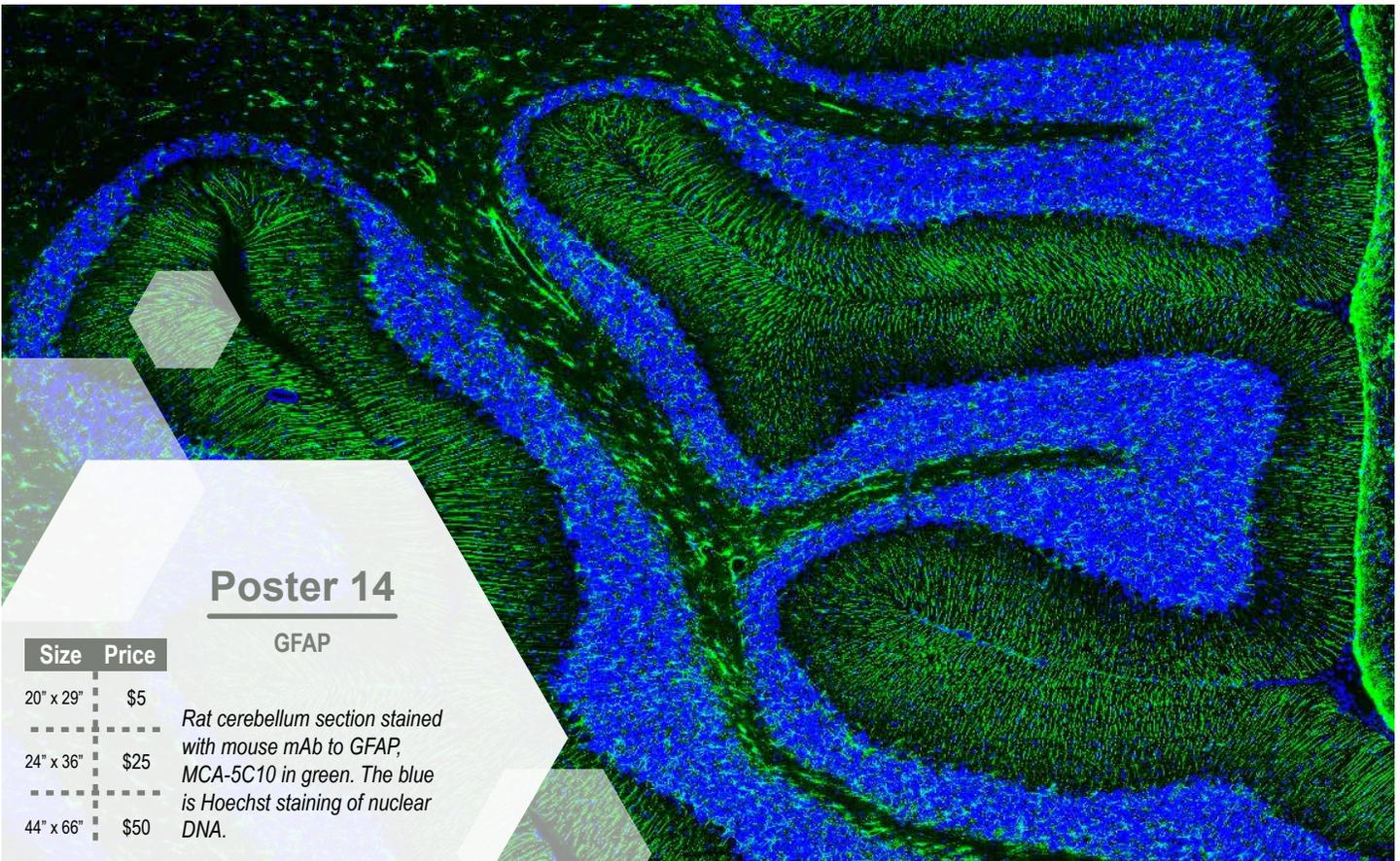


Poster 01

GFAP, Vimentin

Rat cortical neuron-glia cell culture stained with rabbit pAb to GFAP, RPCA-GFAP in red, and costained with mouse mAb to vimentin, MCA-2A52 in green. The blue is DAPI staining of nuclear DNA.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50



Poster 14

GFAP

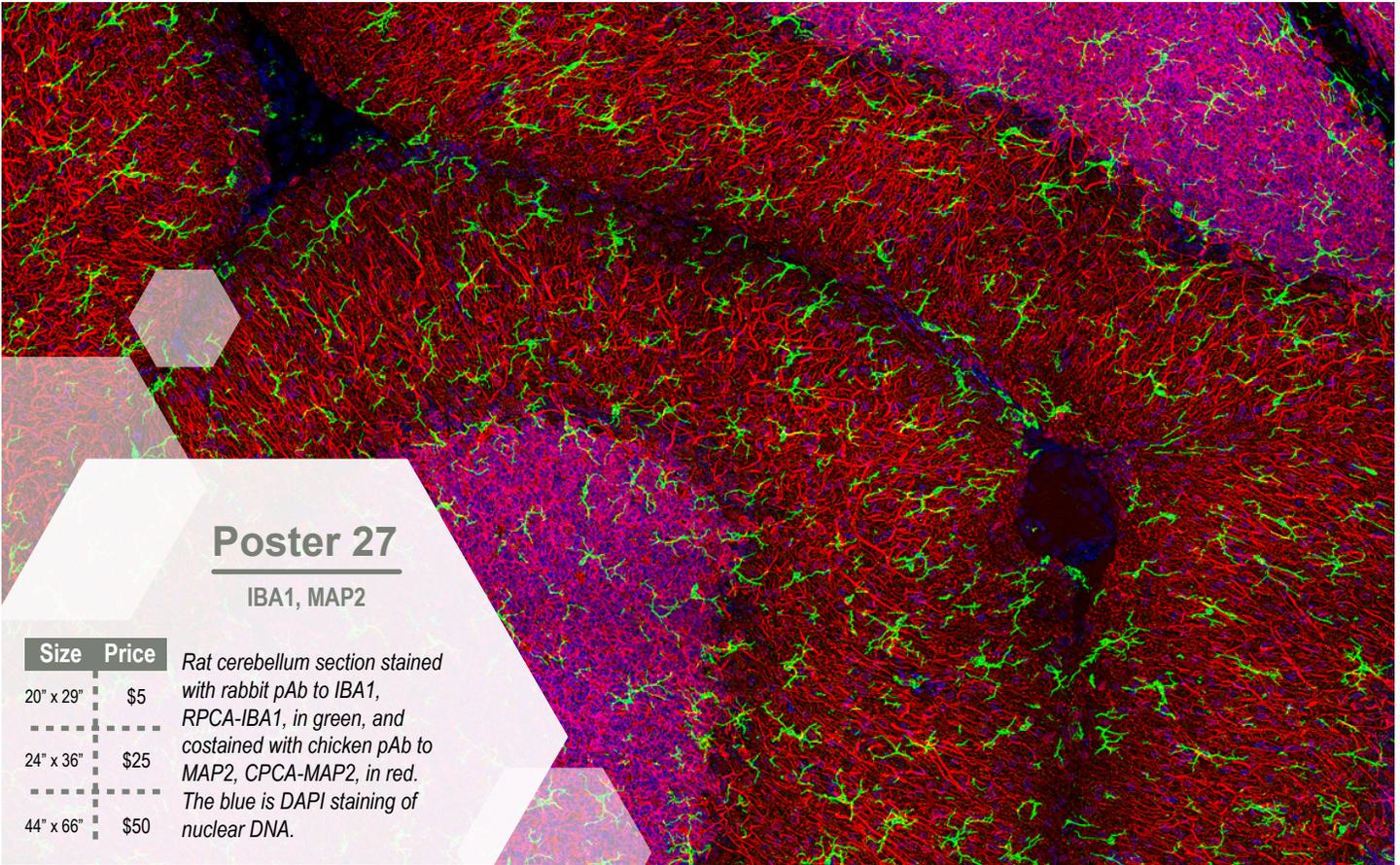
Size Price

20" x 29" \$5

24" x 36" \$25

44" x 66" \$50

Rat cerebellum section stained with mouse mAb to GFAP, MCA-5C10 in green. The blue is Hoechst staining of nuclear DNA.



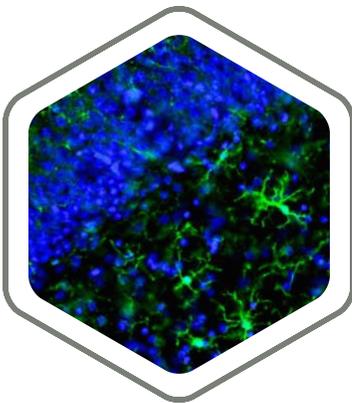
Poster 27

IBA1, MAP2

Size Price

20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

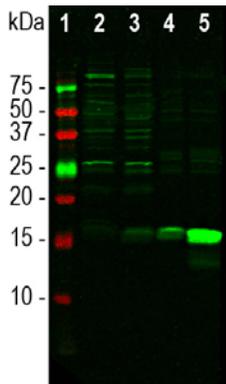
Rat cerebellum section stained with rabbit pAb to IBA1, RPCA-IBA1, in green, and costained with chicken pAb to MAP2, CPCA-MAP2, in red. The blue is DAPI staining of nuclear DNA.



Rat hippocampus section stained with rabbit pAb to IBA1, RPCA-IBA1, in green. The blue is Hoechst staining of nuclear DNA.

IBA1

IBA1, also known as AIF1, is a 17kDa member of the "EF" hand superfamily of Calcium binding proteins which is expressed in hematopoietic cells. Since the only hematopoietic cells normally found within the CNS are microglia, suitable IBA1 antibodies are widely used to identify microglial cells in sections and tissues. Microglia are the immunocompetent cells of the CNS and are extremely important in responses to CNS injury and disease. Accordingly high quality antibodies to IBA1, like RPCA-IBA1, are essential tools for studies of the normal and diseased CNS.



Rabbit pAb to IBA1

Cat# RPCA-IBA1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
AIF1	AB_2722747	Peptide identical to part of the C-terminal of human IBA1	IgG	17kDa	WB: 1:1,000 IF: 1:2,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates using rabbit pAb to IBA1, RPCA-IBA1, dilution 1:1,000 in green: [1] protein standard (red), [2] mouse brain, [3] rat brain, [4] mouse spleen, and [5] rat spleen. The band at about 15kDa mark corresponds to IBA1 protein.

Serum + 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

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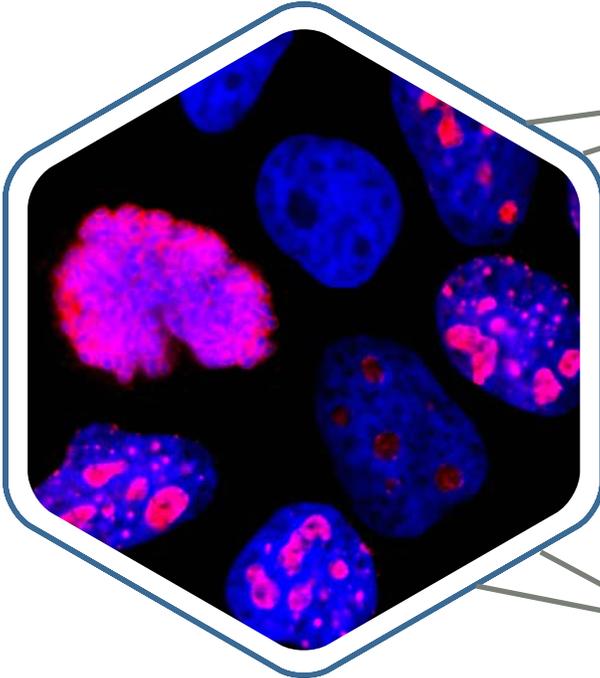
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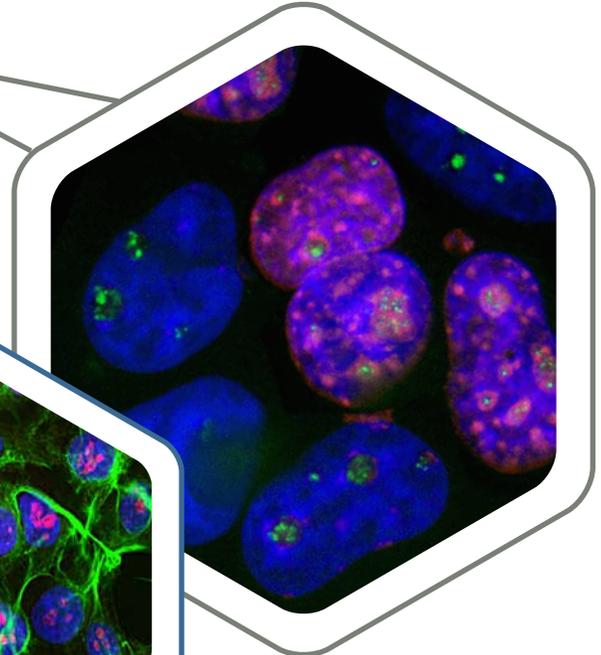
Ki67

HeLa cell culture stained with mouse mAb to Ki67, MCA-6G3, in red. The blue is Hoechst staining of nuclear DNA.

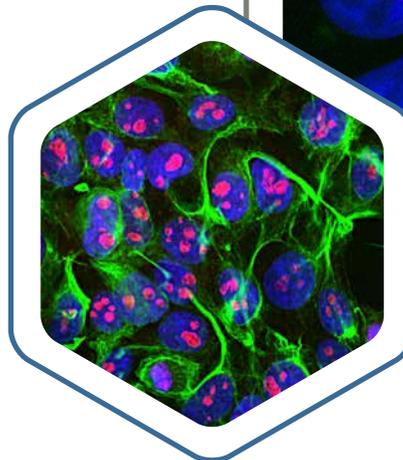


The Ki67 proteins were discovered in an attempt to generate cancer specific mAbs. A monoclonal antibody which bound to structures in the nuclei of dividing but not quiescent cells was proven to bind two very large proteins of molecular weight 345kDa and 395kDa. The two proteins were derived from alternate transcripts of a single gene. The presence of Ki67 proteins, detected with an appropriate antibody, is an indicator of cell proliferation, and the level of Ki67 expression is one of the most reliable biomarkers of proliferative status of cancer cells. The Ki67 antibodies were raised against a recombinant construct containing amino acids 1,111-1,490 or 1-300 of human Ki67 isotype 1. The antibodies can be used to identify dividing cells in human and in some cases rodent cells and also work great on paraffin sections of human tissues.

HeLa cell culture stained with rabbit pAb to Ki67, RPCA-Ki67, in red, and costained with mouse mAb to fibrillarin, MCA-38F3, in green. The blue is Hoechst staining of nuclear DNA



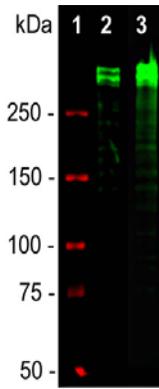
HEK293 cell culture stained with chicken pAb to Ki67, CPCA-Ki67, in red, and costained with mouse mAb to vimentin, MCA-2A52, in green. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



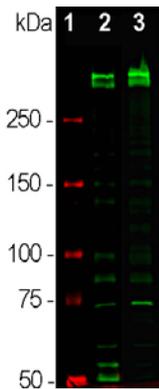
Mouse mAb to Ki67

Cat# MCA-6B4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MKI67	AB_2637051	Amino acids 1,111-1,490 of human recombinant Ki67	IgG1	345, 395kDa	WB: 1:2,000 IF/IHC: 1:2,000	Hu

Western blot analysis of equal amounts of cell lysates using mouse mAb to Ki67, MCA-6B4, dilution 1:2,000, (green): [1] protein standard (red), [2] HeLa cells, [3] HEK293 cells. Strong double bands above 250kDa correspond to the two major Ki67 isoforms of molecular weight of 345 and 395kDa.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



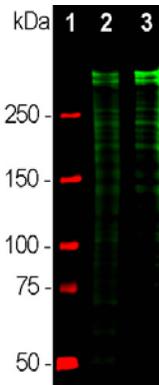
Mouse mAb to Ki67

Cat# MCA-6G3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MKI67	AB_2637052	amino acids 1-300 of human recombinant Ki67 protein	IgG1	345, 395kDa	WB: 1:2,000 IF/IHC: 1:2,000	Hu

Western blot analysis of equal amounts of cell lysates using mouse mAb to Ki67, MCA-6G3, dilution 1:2,000, (green): [1] protein standard (red), [2] HeLa cells, [3] HEK293 cells. Strong double bands above 250kDa correspond to the two major Ki67 isoforms of molecular weight of 345 and 395kDa.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



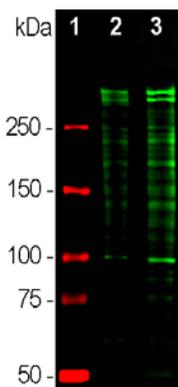
Rabbit pAb to Ki67

Cat# RPCA-Ki67

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MKI67	AB_2637050	Amino acids 1,111-1,490 of human recombinant Ki67	IgG	345, 395kDa	WB: 1:10,000 IF:2,000 IHC: 1:1,000	Hu, Rt, Ms, Mo

Western blot analysis of equal amounts of cell lysates using rabbit pAb to Ki67, RPCA-Ki67, dilution 1:10,000, (green): [1] protein standard (red), [2] HeLa cells, [3] HEK293 cells. Strong double bands above 250kDa correspond to the two major Ki-67 isoforms of molecular weight 345kDa and 395kDa. Smaller proteolytic fragments of these isoforms are also detected on the blot.

Serum + 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Chicken pAb to Ki67

Cat# CPCA-Ki67

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MKI67	AB_2637049	Mixture of amino acids 1-300, and 1111-1490 of human Ki-67 protein*	IgY	345, 395kDa	WB: 1:5,000 IF/ICC: 1:1,000	Hu, Rt, Ms, Mo

Western blot analysis of equal amounts of cell lysates using chicken pAb to Ki67, CPCA-Ki67, dilution 1:5,000, in green: [1] protein standard (red), [2] HeLa cells, [3] HEK293 cells. Strong double bands above 250kDa correspond to the two major isoforms of molecular weight 345kDa and 395kDa of Ki67. Since Ki67 is rather unstable multiple protein proteolytic fragments of these isoforms are also detected on the blot.

Concentrated IgY preparation in PBS, 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

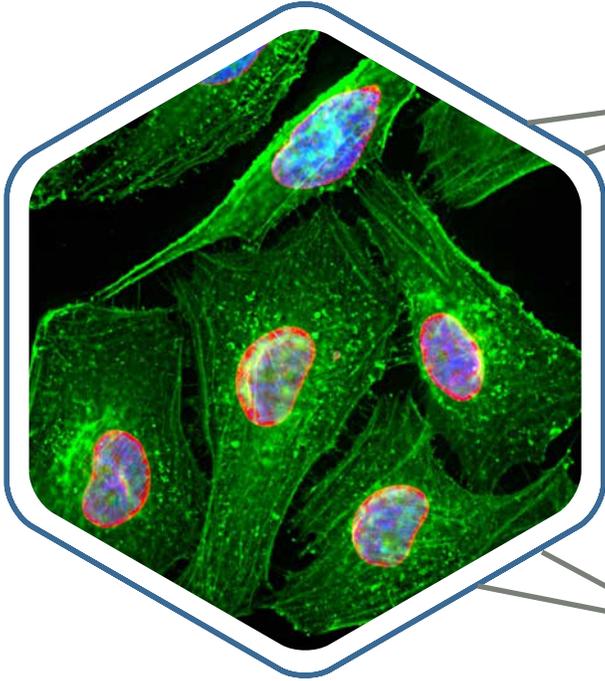
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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

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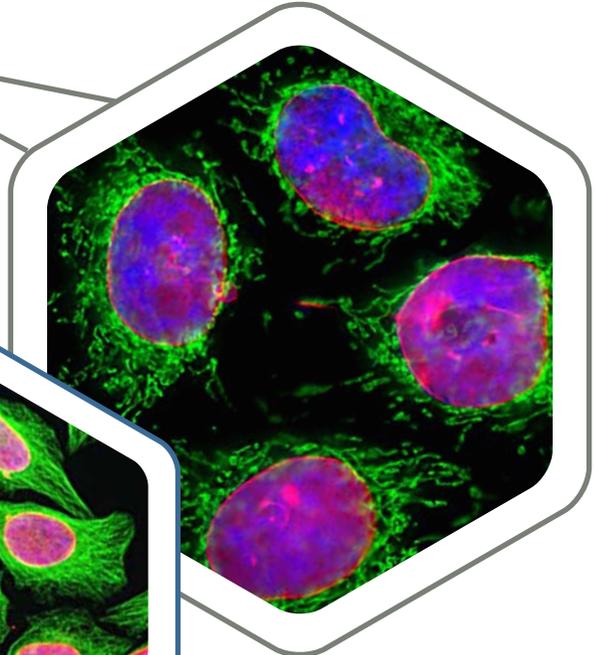
HeLa cell culture stained with chicken pAb to lamin A/C, CPCA-LaminAC, in red, and costained with mouse mAb to actin, MCA-5J11, in green. The blue is Hoechst staining of nuclear DNA.



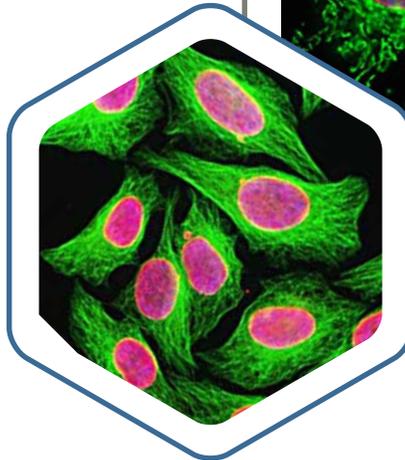
Lamin A/C

Lamin A and lamin C are intermediate filament proteins expressed in the nucleus. The two proteins are generated by alternate transcription from the single *LMNA* gene. Lamin A has a molecular weight of about 74kDa while lamin C is 65kDa. During cell division, the nuclear lamina breaks down and lamin A/C containing filaments depolymerize. Antibodies against the lamin A/C protein can be used to visualize the nuclear lamina, and to monitor lamin A/C expression in cells.

HeLa cell culture stained with mouse mAb to lamin A/C, MCA-4C4, in red, and costained with rabbit pAb to HSP60, RPCA-HSP60, in green. The blue is Hoechst staining of nuclear DNA.



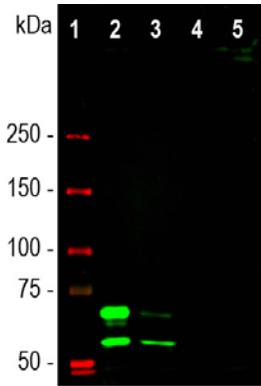
HeLa cell culture stained with rabbit pAb to lamin A/C, RPCA-LaminAC, in red, and costained with mouse mAb to β -tubulin, MCA-4E4. The blue is Hoechst staining of nuclear DNA.



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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
 Pi—Pig Ho—Horse Ch—Chicken Dm—*D. melanogaster* Sc—*S. cerevisiae* Sa—*S. aureus*



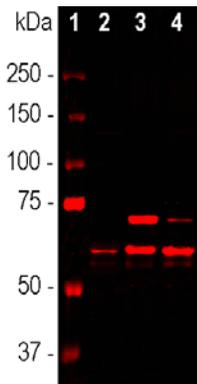
Mouse mAb to Lamin A/C

Cat# MCA-4C4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
LMNA	AB_2572339	Full-length human recombinant protein	IgG1	65, 74kDa	WB: 1:1,000 IF/ICC: 1:1,000	Hu

Western blot analysis of different cell lysates using mouse mAb to lamin A/C, MCA-4C4, dilution 1:1,000 in green: [1] protein standard (red), [2] HeLa, [3] HEK293 [4] C6 and [5] NIH-3T3 cell lysates. Two strong bands at 74kDa and 65kDa correspond to the lamin A and lamin C proteins respectively.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



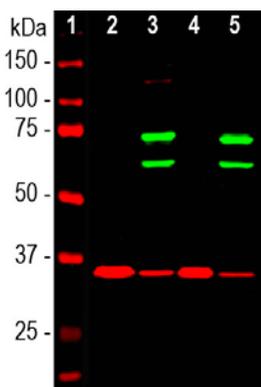
Rabbit pAb to Lamin A/C

Cat# RPCA-LaminAC

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
LAMA1, LAMB1, LAMC1	AB_2572341	Full-length human recombinant protein	IgG	65, 74kDa	WB: 1:5,000 IF/ICC: 1:5,000	Hu

Western blot analysis of whole cell lysates using rabbit pAb to lamin A/C, RPCA-LaminAC, dilution 1:5,000, in red. [1] protein standard, [2] Hek293, [3] HeLa and [4] SH-SY5Y cells. Two bands at 74kDa and 65kDa correspond to lamin A and C proteins respectively.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to Lamin A/C

Cat# CPCA-LaminAC

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
LMNA	AB_2572338	Full-length human recombinant protein	IgY	65, 74kDa	WB: 1:1,000 IF/ICC: 1:1,000	Hu, Rt, Ms, Ho, Do, Mo

Western blot of cytosolic or nuclear fractions probed with chicken pAb to lamin A/C, CPCA-laminAC, in green: [1] protein standard (red), [2] HeLa cytosol, [3] HeLa nuclear, [4] NIH-3T3 cytosol and [5] NIH-3T3 nuclear fractions. Two strong bands at 74kDa and 65kDa correspond to lamin A and C proteins respectively. Blot was simultaneously probed with mouse mAb to GAPDH, MCA-1D4, in red.

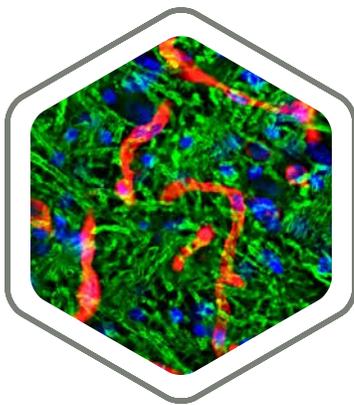
Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

FOR RESEARCH USE ONLY. NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE.

Abbreviation Key:

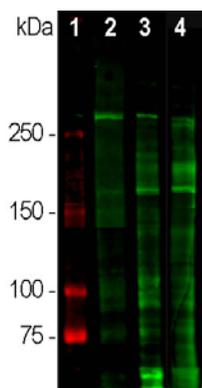
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Laminin



Rat brain stem section stained with rabbit pAb to laminin, RPCA-Laminin, in red, and costained with chicken pAb to MBP, CPCA-MBP, in green. The blue is Hoechst staining of nuclear DNA.

The laminin family of glycoproteins are an integral part of the structural scaffolding in almost every tissue of an organism. Laminins are abundant high-molecular weight proteins that are secreted and incorporated into cell-associated extracellular matrices. Basement membranes (BM) are sheet-like extracellular matrix structures that are the foundation for cells to grow on. Basement membranes have a strong influence on cell differentiation, migration, and adhesion. Laminins are an important biologically active part of the basement membrane. Antibodies to laminin can be used to reliably identify the basement membrane, part of the blood brain barrier, in the brain and in the sheath material around peripheral nerves.



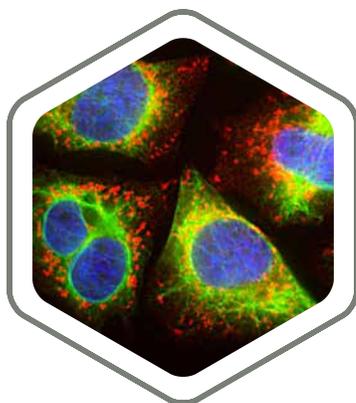
Rabbit pAb to Laminin

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
LAMA1, LAMB1, LAMC1	AB_2572341	Laminin isolated from mouse EHS cells	IgG	440, 220kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co

Western blot analysis of different tissue lysates using rabbit pAb to laminin, RPCA-Laminin, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, and [4] cow spinal cord lysate. The strong band above the 280kDa mark corresponds to full length laminin proteins. Smaller proteolytic fragments of laminin are also detected with this antibody.

Cat# RPCA-Laminin

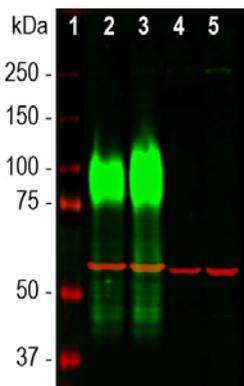
Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



HeLa cells treated with chloroquin stained with mouse mAb to LAMP1, MCA-5H6, in red, and costained with chicken pAb to vimentin, CPCA-Vim, in green. The blue is Hoechst staining of nuclear DNA.

Lysosome membrane associated protein 1, LAMP1, is also known as CD107a, lysosome glycoprotein 120, LGP120 and LAMPA, as this protein was independently discovered and named by several different labs. Lysosomes, single-membrane organelles defined by strong acidic luminal pH and high content of acid hydrolases, are the shared degradative compartments of the endocytic and autophagic pathways. In a typical cell LAMP1 is associated with spherical vesicles located next to the nucleus and the microtubule organizing center. Antibodies to LAMP1 are therefore very useful in monitoring degradative pathways that involve lysosomes in mammalian cells.

LAMP1



Mouse mAb to LAMP1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
LAMP1	AB_2572342	Full-length human recombinant LAMP1 protein	IgG1	90 - 120kDa	WB: 1:10,000 IF/ICC: 1:2,000	Hu, Do

Western blot analysis of different cell lysates simultaneously using mouse mAb to LAMP1, MCA-5H6 in green, and chicken pAb to HSP60, CPCA-HSP60, in red. Cells were maintained under normal conditions (Ct), or treated with 50µM of chloroquine (CQ) for 24 hours: [1] protein standard [2] HeLa Ct, [3] HeLa+CQ, [4] NIH-3T3 Ct and [5] NIH-3T3+CQ. The band between 75-120kDa corresponds to glycosylated forms of the LAMP1 protein.

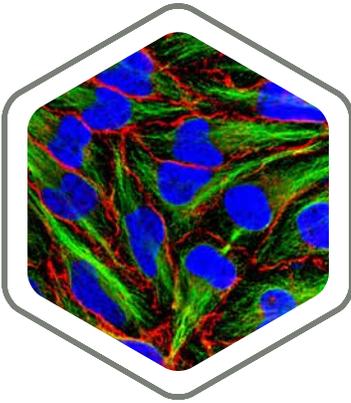
Cat# MCA-5H6

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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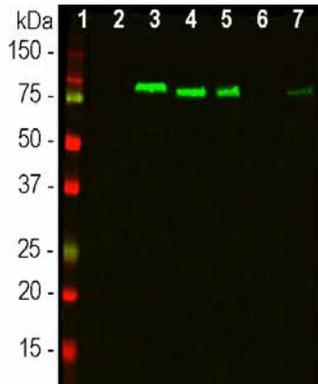
Abbreviation Key:
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

MARCKS



HeLa cell culture stained with rabbit pAb to MARCKS, RPCA-MARCKS, in red, and costained with mouse mAb to tubulin, MCA-1B12, in green. The blue is Hoechst staining of nuclear DNA.

Myristoylated alanine rich C-kinase substrate (MARCKS) was originally discovered as a major substrate for protein kinase C in the brain and other tissues. MARCKS is now known to be a major protein in the brain, and is concentrated in the synapses of neurons and is membrane localized due to the attachment of an N-terminal myristoyl lipid group. Antibodies to MARCKS can therefore be used as a marker of synaptic regions and membranes in cells grown in culture. Since the MARCKS protein sequence is poorly conserved across species boundaries, they are not suitable for work on rodent tissues.



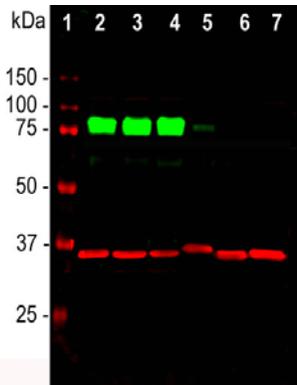
Mouse mAb to MARCKS

Cat# MCA-5F9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MARCKS	AB_2744535	Full-length human recombinant MARCKS protein	IgG1	80kDa	WB: 1:2,000 IF/ICC: 1:2,000	Hu, Mo

Western blot analysis of different cell lysates using mouse mAb to MARCKS, MCA-5F9, in green: [1] protein standard, [2] NIH-3T3, [3] HEK293, [4] HeLa, [5] SH-SY5Y, [6] C6 and [7] COS1 cell. The band at ~80kDa corresponds to MARCKS protein detected only in the human and monkey cells.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



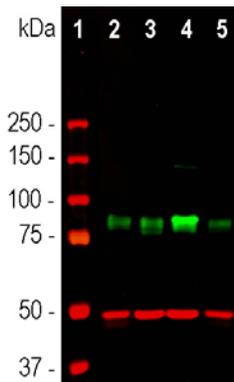
Rabbit pAb to MARCKS

Cat# RPCA-MARCKS

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MARCKS	AB_2250333	Full-length human recombinant MARCKS protein	IgG	80kDa	WB: 1:1,000 IF/ICC & IHC: 1:500	Hu, Mo

Western blot analysis of cell line lysates simultaneously probed with rabbit pAb to MARCKS, RPCA-MARCKS, in green and mouse mAb to GAPDH, MCA-1D4, in red: [1] protein standard, [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS1, [6] NIH-3T3 and [7] C6 cells. The strong band at ~80kDa corresponds to MARCKS protein. GAPDH antibody used as a loading control revealing a single band at ~37kDa in all preparations.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to MARCKS

Cat# CPCA-MARCKS

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MARCKS	AB_2744536	Full-length human recombinant MARCKS protein	IgY	80kDa	WB: 1:5,000, IF/ICC: 1:1,000	Hu, Mo

Western blot analysis of cell line lysates simultaneously probed with chicken pAb to MARCKS, CPCA-MARCKS, in green and mouse mAb to GAPDH, MCA-1D4, in red: [1] protein standard, [2] HEK293, [3] HeLa, [4] SH-SY5Y, and [5] COS1. The strong band at ~80kDa corresponds to MARCKS protein. GAPDH antibody used as a loading control revealing a single band at ~37kDa in all preparations.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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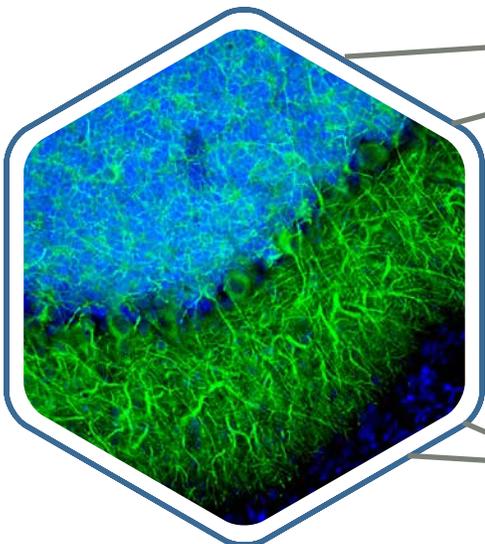
Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Microtubule associated proteins (MAPs) play a crucial role in the regulation of microtubule dynamics in vivo. The originally identified MAPs from brain tissue were classified into two groups based on their molecular weight with 55-62kDa that were named τ (tau) proteins, and with 200kDa and above that were named MAP1, MAP2, MAP3, MAP4 and MAP5. There is a single mammalian MAP2 gene which may generate multiple lower molecular weight forms usually named MAP2C and MAP2D that run on SDS-PAGE gels at 60-70kDa. They are found in neurons early in development, but later on are replaced by MAP2A and MAP2B, which are ~280kDa in molecular size. MAP2 isoforms are expressed only in neurons, specifically in the perikarya and dendrites of these cells. Antibodies to MAP2 isotypes are therefore useful for identifying neurons in cell culture and sections.

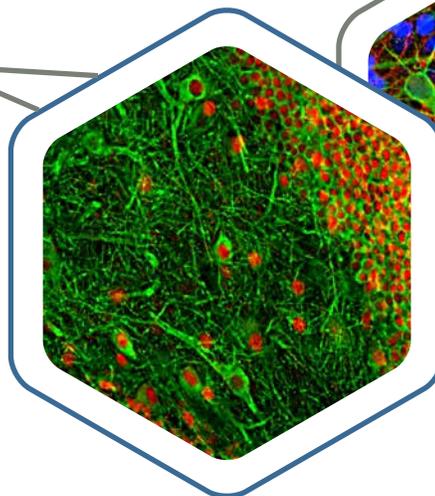
MAP2

Microtubule Associated Protein 2

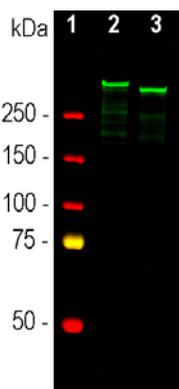
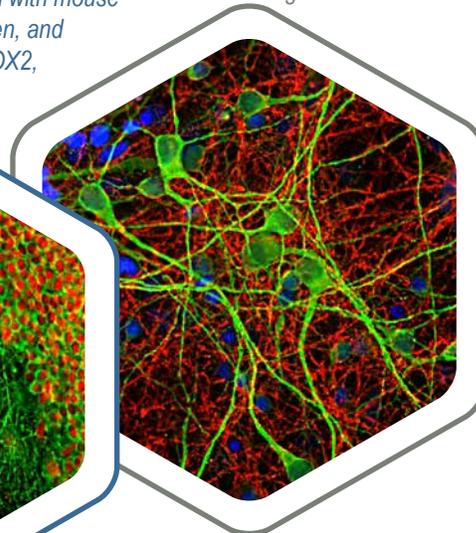


Rat cerebellum section stained with mouse mAb to MAP2, MCA-5H11, in green. The blue is Hoechst staining of nuclear DNA.

Rat hippocampus section stained with mouse mAb to MAP2, MCA-2C4, in green, and costained with chicken pAb to FOX2, CPCA-FOX2, in red.



Rat cortical neuron-glia cell culture stained with MAP2, CPCA-MAP2, in green, and costained with GAP43, MCA-3H14, in red. The blue is Hoechst staining of nuclear DNA.



Goat pAb to MAP2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MAP2	AB_2737286	Recombinant human project-domain seq. (A.A. 377- 1505)	IgG	280kDa	WB: 1:2,000, IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Cat# GPCA-MAP2

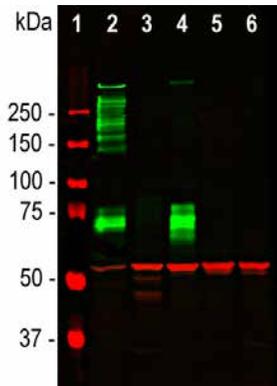
Amount	Price
50 μ L	\$120
100 μ L	\$200
500 μ L	\$800

Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Western blot analysis of lysates from different tissue using goat pAb to MAP2, GPCA-MAP2, in green: [1] protein standard, [2] adult rat brain, [3] adult mouse brain. The band at about 280kDa corresponds to MAP2A/B protein.

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Abbreviation Key: mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



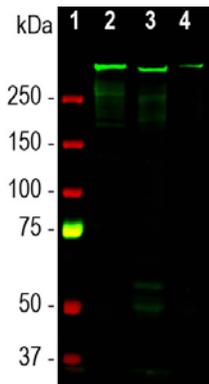
Mouse mAb to MAP2

Cat# MCA-2C4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MAP2	AB_2572215	Full-length human recombinant protein	IgG1	MAP2 A/B: 280kDa MAP2 C/D: 70kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of tissue and cell lysates using mouse mAb to MAP2C/D, MCA-2C4, dilution 1:5,000 in green, and chicken pAb to vimentin, CPCA-Vim, dilution 1:5,000 in red. [1] protein standard (red), [2] rat whole brain lysate, [3] HeLa, [4] SH-SY5Y, [5] HEK293, and [6] NIH/3T3 cell lysates. The band at about 280kDa corresponds to MAP2A/B isotypes. The band at about 70kDa represents MAP-2C/D isotypes.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



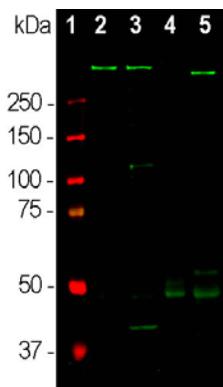
Mouse mAb to MAP2

Cat# MCA-4H5

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MAP2	AB_2572346	Purified full-length bovine MAP2 protein	IgG1	280kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co

Western blot analysis of tissue and cell lysates using mouse mAb to MAP2, MCA-4H5, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] mouse brain and [4] embryonic rat cortical neuron-glia cell lysate. The band at about 280kDa corresponds to the MAP2A and MAP2B proteins.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



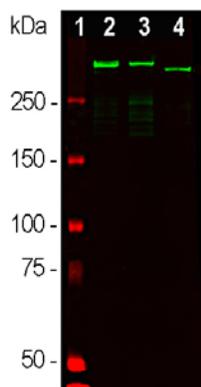
Mouse mAb to MAP2

Cat# MCA-5H11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MAP2	AB_2572347	Purified full-length bovine MAP2 protein	IgG2b	280kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates using mouse mAb to MAP2A/B, MCA-5H11, dilution 1:10,000 in green: [1] protein standard (red), [2] adult rat whole brain, [3] embryonic (E20) rat brain, [4] adult rat spinal cord, and [5] adult mouse brain lysate. The band at about 280kDa corresponds to full length MAP2A and MAP2B protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Chicken pAb to MAP2

Cat# CPCA-MAP2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MAP2	AB_2138173	Recombinant human project-domain seg. (A.A. 377- 1505)	IgY	280kDa	WB: 1:50,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of whole brain tissue lysates using chicken pAb to microtubule associated protein 2 (MAP2), CPCA-MAP2, dilution 1:50,000 in green: [1] protein standard (red), [2] adult rat brain, [3] embryonic E20 rat brain, [4] adult mouse brain. Strong band at ~280kDa mark corresponds to two major isoforms of MAP2 protein referred to as MAP2A and MAP2B.

Amount	Price
25µL	\$150
50µL	\$250
100µL	\$550

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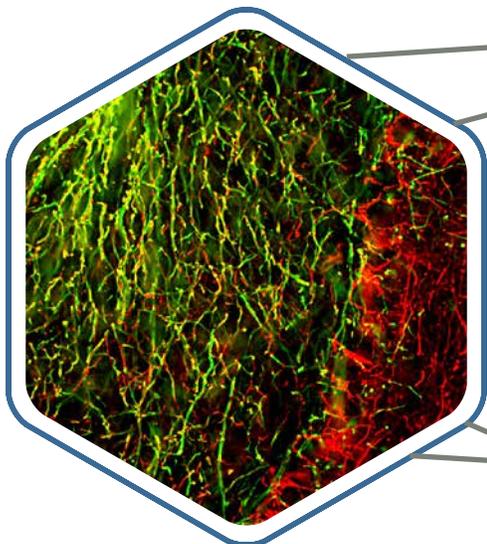
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Myelin basic proteins (MBP) are a group of seven proteins produced from a single gene by alternate splicing. MBP is one of the major proteins of the myelin sheath surrounding axons in the nervous system which comprises 30% of the myelin protein content. MBP is produced by oligodendrocytes in the central nervous system (CNS), and by mature Schwann cells in the peripheral nervous system (PNS). However, MBP-related transcripts are also present in the bone marrow and in the immune system. Antibodies to MBP could serve as a good marker of these cells as well as be useful for monitoring formation and function of myelin sheaths.

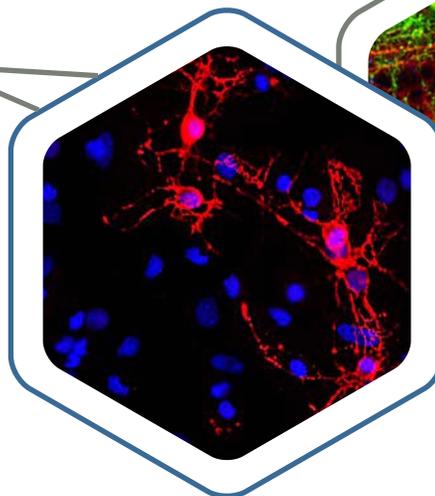
MBP

Myelin Basic Protein

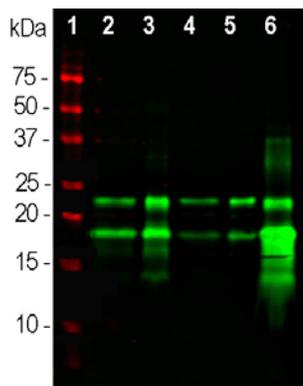
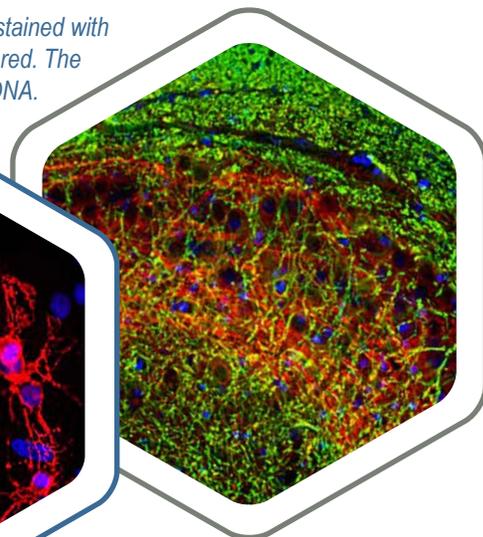


Rat cerebellum section stained with mouse mAb to MBP, MCA-7G7, in green, and costained with rabbit pAb to NF-H, RPCA-NF-H, in red.

Rat cortical neuron-glia cell culture stained with chicken pAb to MBP, CPCA-MBP, in red. The blue is Hoechst staining of nuclear DNA.



Rat hippocampus section stained with mouse mAb to MBP, MCA-7D2, in green, and costained with rabbit pAb to NF-L, RPCA-NF-L, in red. The blue is Hoechst staining of nuclear DNA.



Mouse mAb to MBP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MBP	AB_2140350	Purified full-length bovine MBP protein	IgG1	18.5 - 21.5kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using mouse mAb to MBP, MCA-7D2, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] cow spinal cord. Bands at 21.5kDa and 18.5kDa are the two larger transcripts from the MBP gene.

Cat# MCA-7D2

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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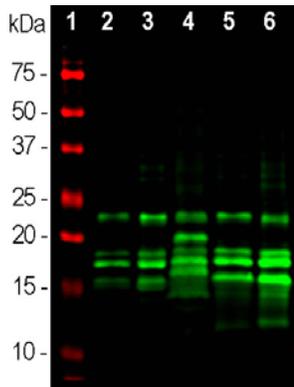
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Mouse mAb to MBP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MBP	AB_2572353	Purified full-length bovine MBP protein	IgG1	18.5 - 21.5kDa	WB: 1:20,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using mouse mAb to MBP, MCA-7G7, dilution 1:20,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] rat sciatic nerve, [5] mouse brain and [6] mouse spinal cord. Multiple bands at 14kDa, 17kDa, 18.5kDa to 21.5kDa are the alternate transcripts of MBP. Multiple bands between 14-21.5kDa correspond to various alternate transcripts of the single *MBP* gene.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



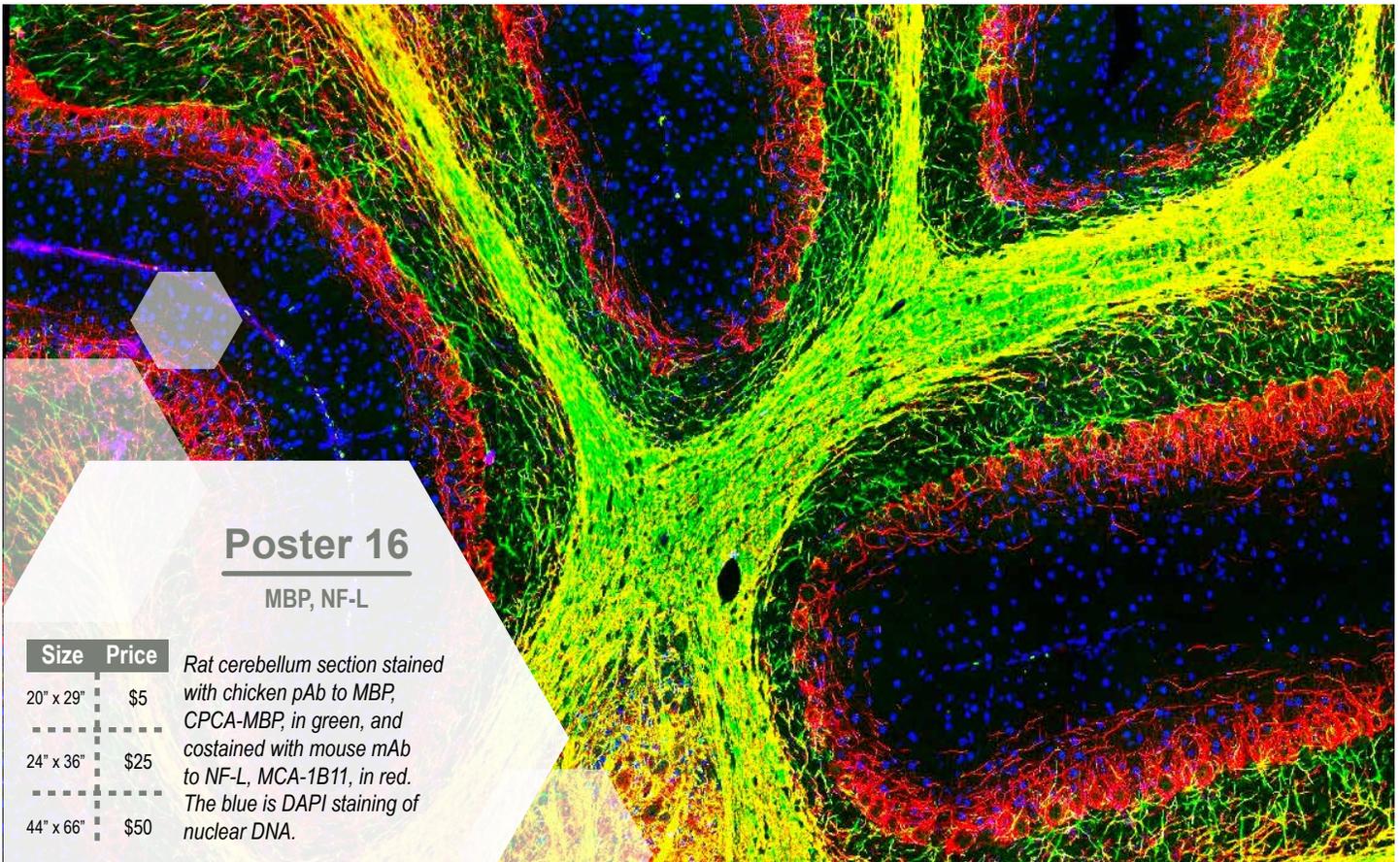
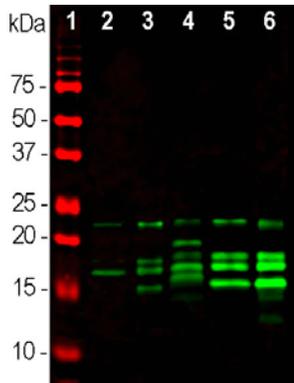
Chicken pAb to MBP

Cat# CPCA-MBP

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MBP	AB_2572352	Purified full-length bovine MBP protein	IgY	18.5 - 21.5kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using chicken pAb to MBP, CPCA-MBP, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] rat sciatic nerve, [5] mouse brain and [6] mouse spinal cord. Multiple bands between 14-21.5kDa correspond to various alternate transcripts of the single *MBP* gene.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Poster 16

MBP, NF-L

Size	Price	Description
20" x 29"	\$5	Rat cerebellum section stained with chicken pAb to MBP, CPCA-MBP, in green, and costained with mouse mAb to NF-L, MCA-1B11, in red. The blue is DAPI staining of nuclear DNA.
24" x 36"	\$25	
44" x 66"	\$50	

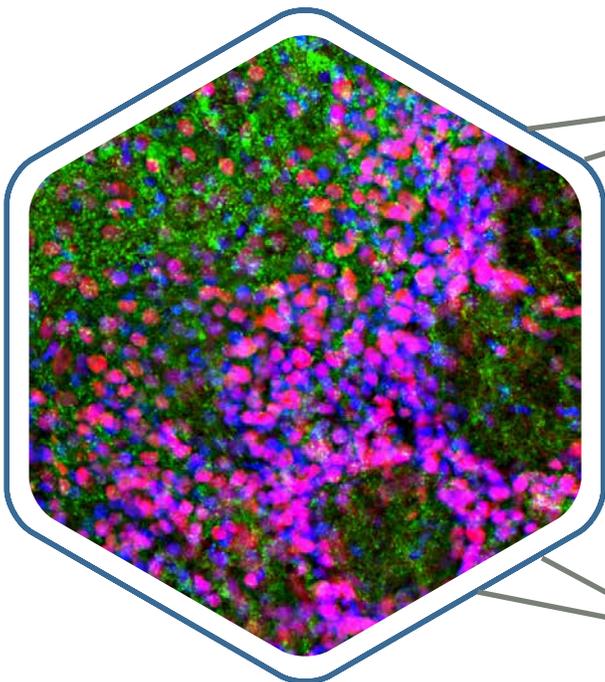
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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

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Rat olfactory bulbs section stained with chicken pAb to MeCP2, CPCA-MeCP2, in red, and costained with mouse mAb to α -synuclein, MCA-2A7, in green. The blue is Hoechst staining of nuclear DNA.

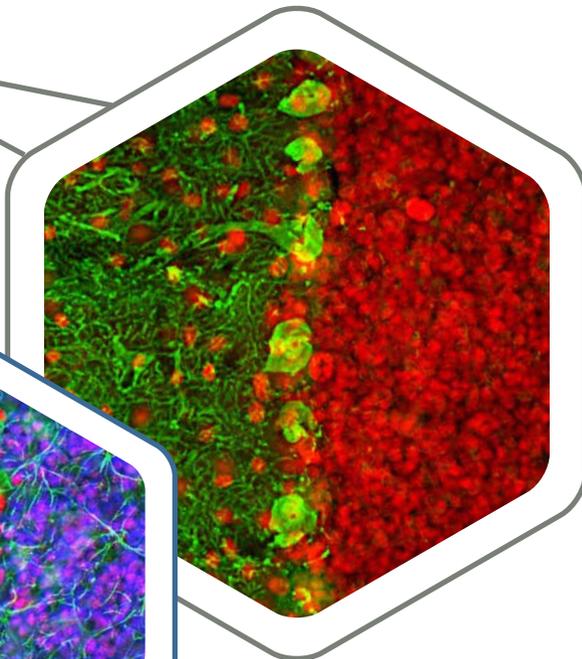


MeCP2

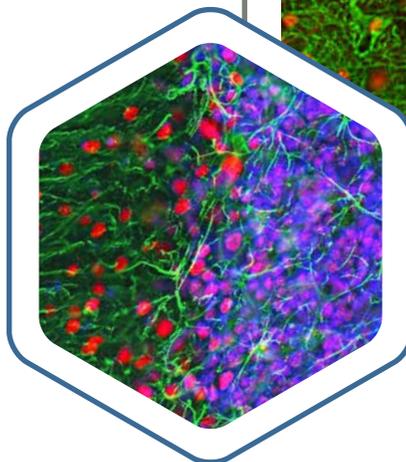
Methyl CpG-binding protein 2

Methyl-CpG binding protein 2 (MeCP2) was discovered as a protein that selectively binds methylated DNA. MeCP2 is a multifunctional nuclear protein that guides neuronal development through its binding to DNA, and it is involved in transcriptional modulation, such as silencing or activation, chromatin remodeling, and RNA splicing. The MeCP2 gene is located on the X-chromosome, and mutations in the gene are linked to Rett syndrome, a neurodevelopment, autistic disorder that affects mainly females. Levels of MeCP2 alter dynamically, and the protein is regulated by phosphorylation on multiple sites. Antibodies to MeCP2 are useful to detect expression level of this protein in the neuronal nuclei by western blot and immunostaining procedures.

Rat cerebellum section stained with rabbit pAb to MeCP2, RPCA-MeCP2, in red, and costained with chicken pAb to calbindin, CPCA-Calb, in green.



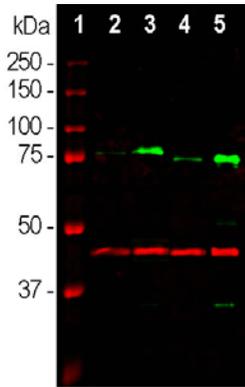
Rat cerebellum section stained with mouse mAb to MeCP2, MCA-4F11, in red, and costained with rabbit pAb to GFAP, RPCA-GFAP, in green. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—*D. melanogaster* Sc—*S. cerevisiae* Sa—*S. aureus*



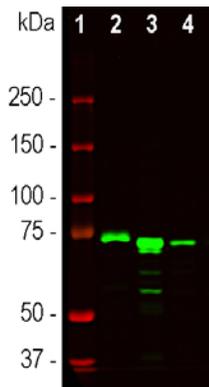
Mouse mAb to MeCP2

Cat# MCA-4F11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MECP2	AB_2737435	Full-length human recombinant protein	IgG1	74kDa	WB: 1:1,000 IF/IHC: 1:500	Hu, Rt, Ms, Ho, Do, Co, Pi

Western blot analysis of tissue lysates using mouse mAb to MeCP2, MCA-4F11, in green: [1] protein standard, [2] rat whole brain, [3] nuclear fraction of rat brain, [4] mouse whole brain, [5] nuclear fraction of mouse brain lysate. Strong band at ~75kDa mark in rat and lower in mouse nuclear enriched fractions corresponds to MeCP2 protein. The same blot was simultaneously probed with chicken pAb to GAP43, CPCA-GAP43, revealing band at 43kDa.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



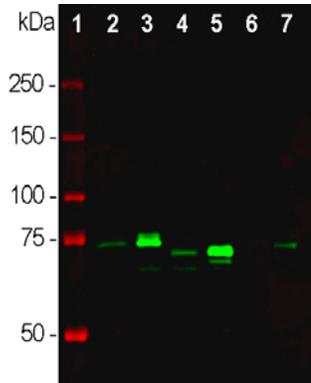
Mouse mAb to MeCP2

Cat# MCA-5H12

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MECP2	AB_2744534	Full-length human recombinant protein	IgG2b	74kDa	WB: 1:5,000, IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Do, Co, Ho, Mo

Western blot analysis of different tissue lysates using mouse mAb to MeCP2, MCA-5H12, dilution 1:2,000, in green. [1] protein standard, [2] nuclear extract of rat brain, [3] nuclear extract of mouse brain, and [4] cow cerebellum. Strong band at ~75kDa corresponds to MeCP2 protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



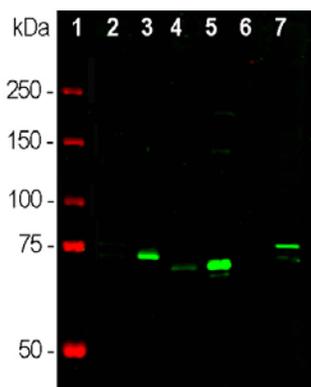
Rabbit pAb to MeCP2

Cat# RPCA-MeCP2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MECP2	AB_2572345	Full-length human recombinant MeCP2 protein	IgG	74kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Mo

Western blot analysis of tissue and cell lysates using rabbit pAb to MeCP2, RPCA-MeCP2, dilution 1:20,000 in green: [1] protein standard (red), [2] Rat whole brain, [3] nuclear fraction of rat brain, [4] mouse whole brain, [5] nuclear fraction of mouse brain, [6] HeLa cells, [7] C6 cells. Major band at ~75 kDa corresponds to MeCP2 protein, predominantly detected in the nuclear fraction of the lysates.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to MeCP2

Cat# CPCA-MeCP2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MECP2	AB_2737436	Full-length human recombinant MeCP2 protein	IgY	74kDa	WB: 1:20,000 IF/IHC: 1:500	Hu, Rt, Ms, Mo

Western blot analysis of tissue and cell lysates using chicken pAb to MeCP2, CPCA-MeCP2, dilution 1:20,000 in green: [1] protein standard (red), [2] rat whole brain, [3] nuclear fraction of rat brain, [4] mouse whole brain, [5] nuclear fraction of mouse brain lysate, [6] C6 cell lysate, and [7] SH-SY5Y cell lysate. The strong band at ~75kDa corresponds to the MeCP2 protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000

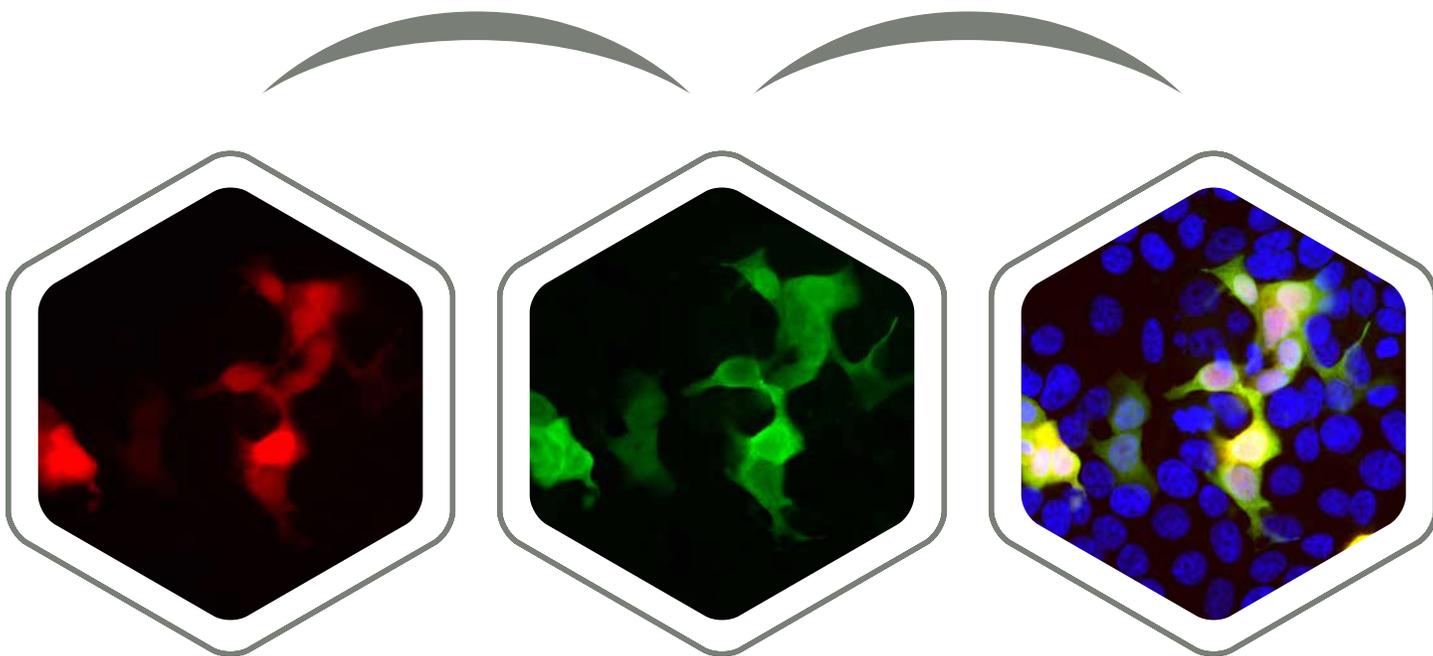
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mCherry

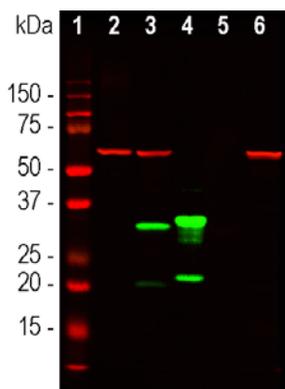
mCherry is derived from a protein originally isolated from a *Discosoma* coral and is used as a fluorescent tracer in transfection and transgenic experiments. The original coral DsRed protein was engineered extensively to prevent it from forming tetramers and dimers and to modify and improve the spectral properties to produce mCherry. We developed antibodies to a recombinant form of mCherry protein. The antibodies have been successfully used to verify the molecular weight of mCherry fusion proteins and to amplify the mCherry signal in IF, ICC and IHC experiments.



HEK293 cells transfected with mCherry construct. Transfected cells are bright red.

HEK293 cells transfected with mCherry construct, stained with chicken pAb to mCherry, CPCA-mCherry, in green.

HEK293 cells transfected with mCherry construct, stained with chicken pAb to mCherry, CPCA-mCherry, in green. Transfected cells stained with the mCherry antibody appear in yellow. The blue is Hoechst staining of nuclear DNA.



Mouse mAb to mCherry

Cat#-MCA-1C51

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572309	Full-length human recombinant protein	IgG2a	28kDa	WB: 1:1,000 IF/IHC: 1:500	N/A

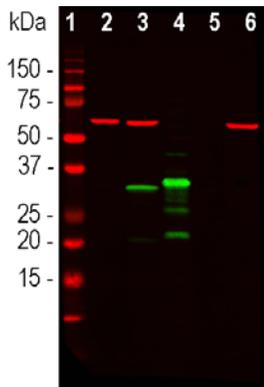
Western blot analysis of HEK293 cell lysates and recombinant proteins using mouse mAb to mCherry, MCA-1C51, in green and chicken pAb to HSP60, CPCA-HSP60, in red. [1] protein standard, [2] HEK293, [3] HEK293 cells transfected with mCherry-HA construct, [4] mCherry recombinant protein [5] GFP recombinant protein and [6] HEK293 cells transfected with GFP construct.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

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Rabbit pAb to mCherry

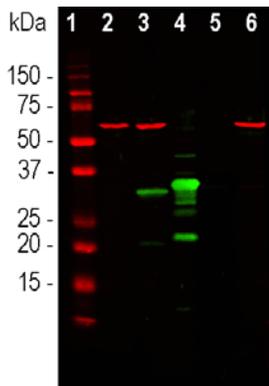
Cat# RPCA-mCherry

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2571870	Full-length human recombinant protein	IgG	28kDa	WB: 1:1,000 IF/IHC: 1:500	N/A

Western blot analysis of HEK293 cell lysates and recombinant protein solutions using rabbit pAb to mCherry, RPCA-mCherry, in green and chicken pAb to HSP60, CPCA-HSP60, in red. [1] protein standard, [2] HEK293, [3] HEK293 cells transfected with mCherry-HA construct, [4] mCherry recombinant protein, [5] GFP recombinant protein and [6] HEK293 cells transfected with GFP construct.

Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to mCherry

Cat# CPCA-mCherry

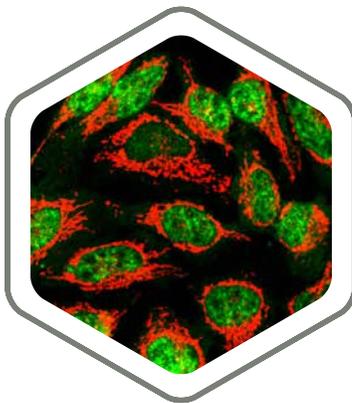
HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
N/A	AB_2572308	Full-length recombinant protein	IgY	28kDa	WB: 1:2,000 IF/IHC: 1:1,000	N/A

Western blot analysis of HEK293 cell lysates and recombinant protein solutions using chicken pAb to mCherry, CPCA-mCherry, in green and mouse mAb to HSP60, MCA-1C7, in red. [1] protein standard, [2] HEK293, [3] HEK293 cells transfected with mCherry-HA construct, [4] mCherry recombinant protein, [5] GFP recombinant protein and [6] HEK293 cells transfected with GFP construct.

Concentrated IgY preparation in PBS, 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

MBNL1



HeLa cell culture stained with mouse mAb to MBNL1, MCA-1H1, in green, and costained with chicken pAb to HSP60, CPCA-HSP60, in red.

Muscleblind protein was originally isolated and described following studies of *Drosophila* as a regulatory factor required for the differentiation of photoreceptor cells and muscle Z-bands, since inactivation of the muscleblind gene in this species resulted in defects in the development of both muscles and the visual system. Muscleblind like protein 1 (MBNL1) is one of 3 mammalian homologues of the *Drosophila* protein, and was discovered since it binds to DNA polynucleotide repeats seen originally in myotonic dystrophy patients. The MBNL1 antibody reacts with human MBNL1 but not the rodent homologue, and detects protein in nuclei.

Mouse mAb to MBNL1

Cat# MCA-1H1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
MBNL1	AB_2572351	Full-length human recombinant Muscleblind-like 1 protein	IgG1	39kDa	WB: 1:1,000 IF/ICC: 1:1,000	Hu

Western blot analysis of different cell lysates, cytosol or nuclear enriched fractions, using mouse mAb to MBNL1, MCA-1H1, dilution 1:1,000 in green: [1] protein standard (red), [2] HEK293 cytosol, [3] HEK293 nuclear fraction, [4] NIH-3T3 cytosol, [5] NIH-3T3 nuclear fraction, [6] HeLa cytosol and [7] HeLa nuclear fraction. The strong band at the 40kDa corresponds to the MBNL1 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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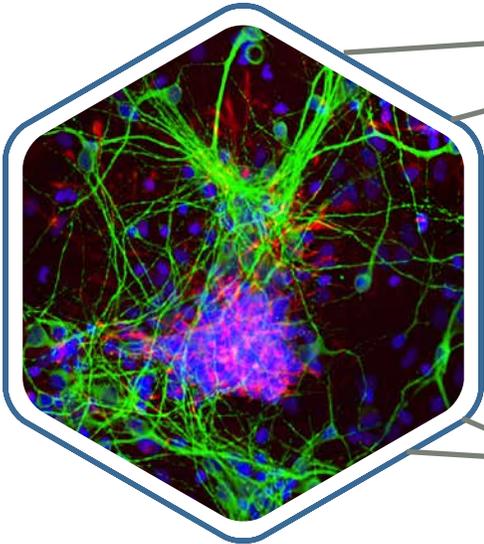
Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Nestin (neuroectodermal stem cell marker) is a cytoskeletal protein classified as a class IV intermediate filament. It is expressed by many types of dividing cells during the early stages of development in the CNS, PNS, in myogenic and other tissues. In the mature brain, nestin is useful as a marker of resident stem cells, particularly in the dentate gyrus of the hippocampus and the olfactory bulb. It is also a marker of stem cells in the pancreas and heart and reactive astrocytes following CNS injury. Nestin is expressed in many types of brain tumor particularly in gliomas. The nestin amino acid sequence is relatively poorly conserved across species boundaries, so that the mouse and human proteins have an overall identity of only 62%. As a result, antibodies to the human protein often fail to recognize the rodent homologue and vice versa.

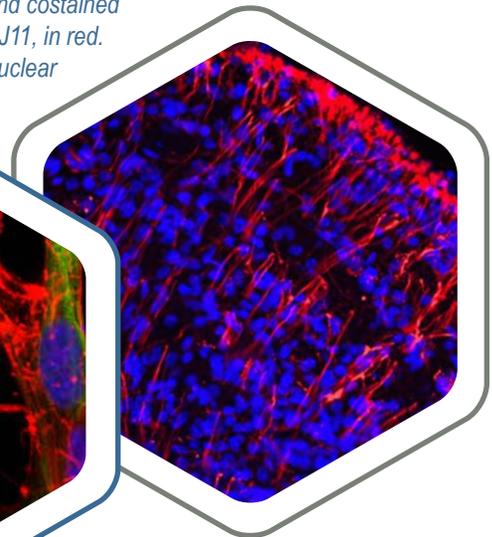
Nestin

Neuroectodermal Stem Cell Marker

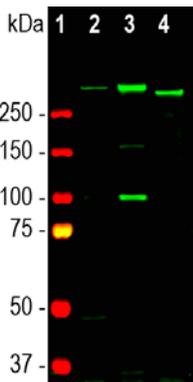
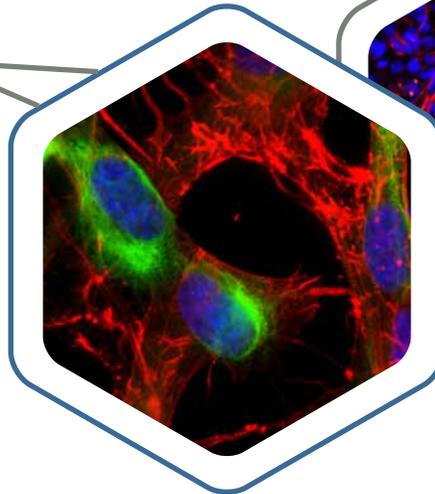


SH-SY5Y cell culture stained with rabbit pAb to nestin, RPCA-Nestin, in green, and costained with mouse mAb to actin, MCA-5J11, in red. The blue is Hoechst staining of nuclear DNA.

Rat embryonic (E18) brain section stained with chicken pAb to nestin, CPCA-Nestin, in red. The blue is Hoechst staining of nuclear DNA.



Rat cortical neuron-glia cell culture stained with mouse mAb to nestin, MCA-4D11, in red, and costained with chicken pAb to MAP2, CPCA-MAP2, in green. The blue is Hoechst staining of nuclear DNA



Mouse mAb to Nestin

Cat# MCA-4D11

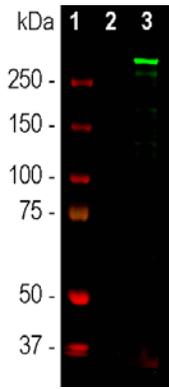
HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NES	AB_2572355	Amino acids 317-630 of human recombinant nestin	IgG1	240kDa	WB: 1:500 IF/ICC: 1:500	Hu, Rt, Ms

Western blot analysis of tissue and cell lysates using mouse mAb against nestin, MCA-4D11, dilution 1:500 in green: [1] protein standard, [2] embryonic E18 rat brain, [3] C6 rat glioma cells and [4] SH-SY5Y human neuroblastoma cells.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM Na3	50µL	\$120
	100µL	\$200
	500µL	\$800

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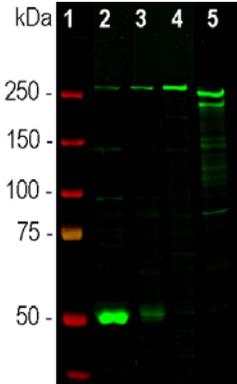
Rabbit pAb to Nestin

Cat# RPCA-Nestin

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NES	AB_2572356	Amino acids 317-630 of human recombinant nestin	IgG	240kDa	WB: 1:3,000 IF/ICC & IHC: 3,000	Hu

Western blot analysis of different cell lysates using rabbit pAb to nestin, RPCA-Nestin, dilution 1:3,000 in green: [1] protein standard, [2] rat cortical neuron-glia cell culture and [3] SH-SY5Y cells. High molecular weight band corresponds to nestin protein detected only in human cells.

	Amount	Price
Serum + 5mM Na3	50µL	\$120
	100µL	\$200
	500µL	\$800



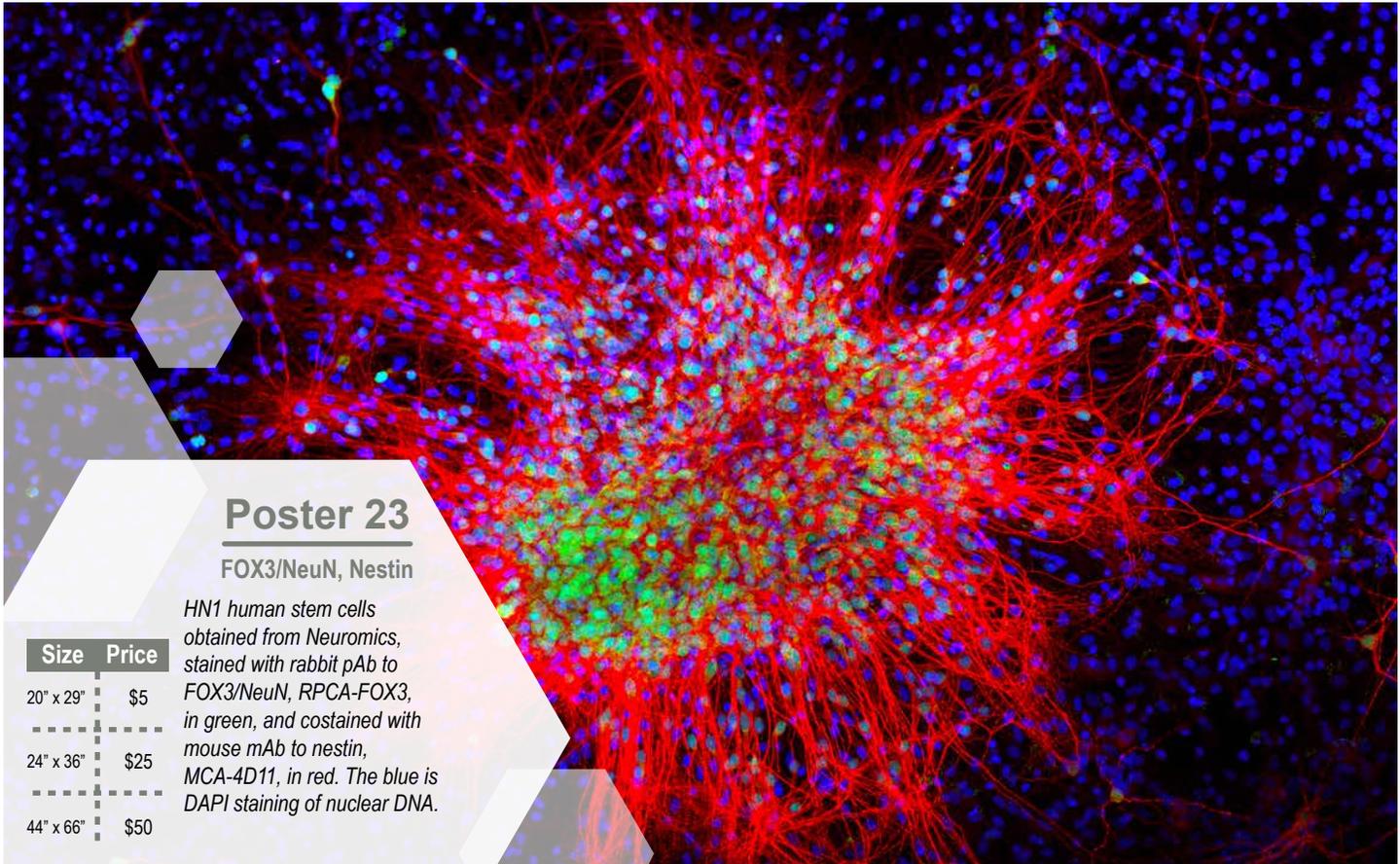
Chicken pAb to Nestin

Cat# CPCA-Nestin

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NES	AB_2737583	Amino acids 317-630 of human recombinant nestin	IgY	240kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of tissue and cell lysates using chicken pAb to nestin, CPCA-Nestin, dilution 1:5,000 in green: [1] protein standard, [2] rat embryonic (E18) brain, [3] rat cortical neuron-glia cell culture, [4] C6 and [5] SH-SY5Y cells. High molecular weight bands correspond to nestin protein.

	Amount	Price
Concentrated IgY preparation in PBS, 5mM Na3	50µL	\$120
	100µL	\$200
	500µL	\$800



Poster 23

FOX3/NeuN, Nestin

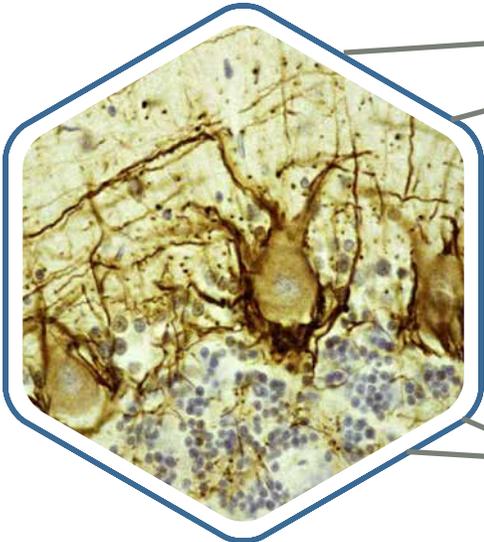
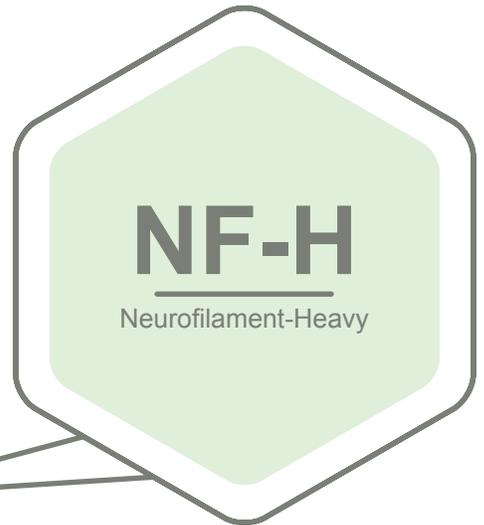
HN1 human stem cells obtained from Neuromics, stained with rabbit pAb to FOX3/NeuN, RPCA-FOX3, in green, and costained with mouse mAb to nestin, MCA-4D11, in red. The blue is DAPI staining of nuclear DNA.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

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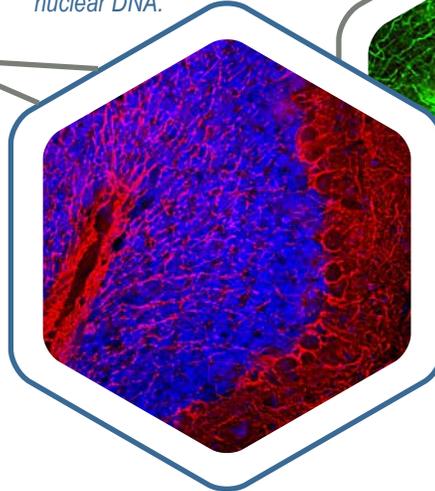
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Neurofilaments are 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M, and NF-H. NF-H is the high or heavy molecular weight polypeptide which runs on SDS-PAGE gels at 200-220 kDa, with some variability across species. Most antibodies to NF-H recognize phosphorylated lysine-serine-proline type repeated sequences in the C-terminal region of the molecule. These phosphorylated sites are normally found in axons and so antibodies to this form of NF-H are useful for identifying axons in tissue sections and in cell culture. NF-H antibodies are also widely used for the visualization of neurofilament accumulations seen in many neurological disorders, such as amyotrophic lateral sclerosis and traumatic brain injury. NF-H may also appear in blood, CSF and other biological fluids following CNS damage or disease and can be detected with appropriate NF-H capture and detection antibodies.

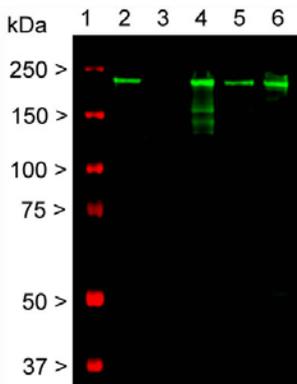
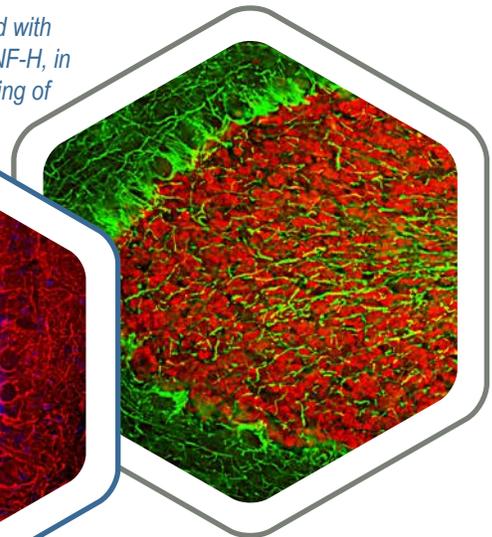


Immunohistological analysis of Human cerebellum section stained with mouse mAb to pNF-H, MCA-NAP4 in brown. Paraffin-embedded, formalin-fixed tissue sections were stained with above antibody using the ABC (avidin biotin conjugate) method. The section was counterstained with Hematoxylin in blue.

Rat cerebellum section stained with chicken pAb to NF-H, CPCA-NF-H, in red. The blue is Hoechst staining of nuclear DNA.



Rat cerebellum section stained with mouse mAb to NF-H, MCA-AH1, in green, and costained with rabbit pAb to FOX3, RPCA-FOX3, in red.



Mouse mAb to NF-H

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFH	AB_2572357	Purified NF-H from bovine spinal cord	IgG1	200 - 220kDa	WB: 1:10,000 IF/ICC: 1:1,000	Hu, Rt, Ms, Co, Pi, Ho

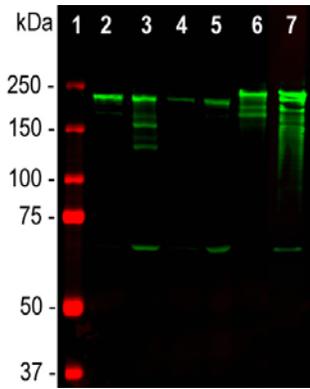
Cat# MCA-AH1

Western blot analysis of tissue lysates using mouse mAb to NF-H, MCA-AH1, dilution 1:10,000 in green: [1] protein standard (red), [2] adult rat brain, [3] embryonic (E20) rat brain, [4] adult rat spinal cord, [5] adult mouse brain and [6] adult mouse spinal cord. The strong band at ~200kDa corresponds to the major phospho-NF-H subunit, which is not present in early development .

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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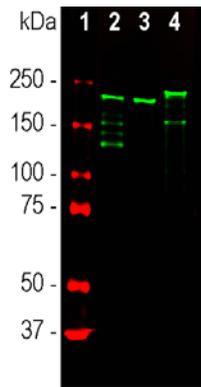
Mouse mAb to NF-H

Cat# MCA-NAP4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFH	AB_2572359	Purified NF-H from bovine spinal cord	IgG1	200 - 220kDa	WB: 1:10,000 IF/ICC:5,000 IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Ho, Ch

Western blot analysis of tissue lysates using mouse mAb to NF-H, MCA-NAP4, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] pig spinal cord and [7] cow spinal cord. Strong band at about 200-220 kDa corresponds to the major phosphorylated form of the NF-H subunit.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



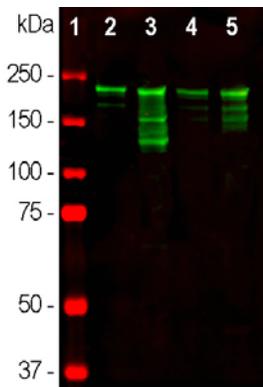
Mouse mAb to NF-H

Cat# MCA-9B12

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFH	AB_2572358	Purified NF-H from bovine spinal cord	IgG2b	200 - 220kDa	WB: 1:10,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using mouse mAb to NF-H, MCA-9B12, dilution 1:10,000 in green: [1] protein standard, [2] rat spinal cord [3] mouse spinal cord and [4] cow spinal cord. Strong band at about 200-220kDa corresponds to the major phosphorylated form of the NF-H subunit.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



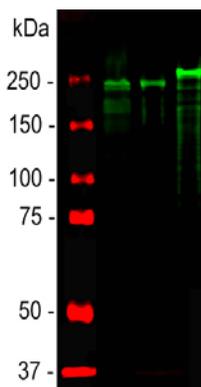
Rabbit pAb to NF-H

Cat# RPCA-NF-H

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFH	AB_2572360	Purified NF-H from bovine spinal cord	IgG	200 - 220kDa	WB: 1:10,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of different tissue lysates using rabbit pAb to NF-H, RPCA-NF-H, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord [4] mouse brain and [5] mouse spinal cord lysate. Strong band at about 220kDa corresponds to the phosphorylated axonal form of the NF-H subunit.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Chicken pAb to NF-H

Cat# CPCA-NF-H

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFH	AB_2149761	Purified NF-H from bovine spinal cord	IgY	200 - 220kDa	WB: 1:20,000 IF/ICC & IHC: 1:10,000	Hu, Rt, Ms, Co, Pi, Ho, Do

Western blot analysis of spinal cord lysates from different species using chicken pAb to NF-H, CPCA-NF-H, dilution 1:20,000 in green: [1] protein standard (red), [2] rat, [3] mouse and [4] cow spinal cord. Strong band at about 200-220kDa corresponds to the phosphorylated form of NF-H.

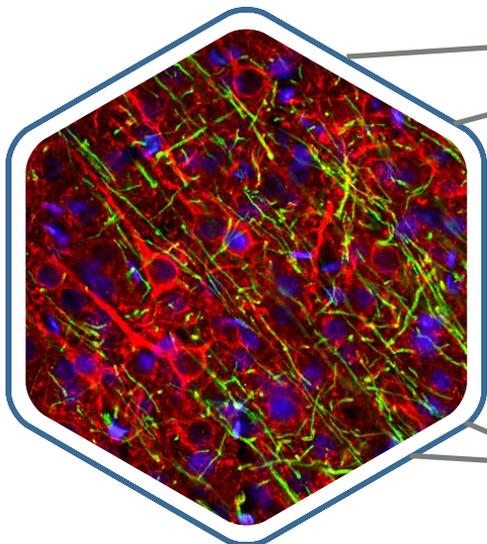
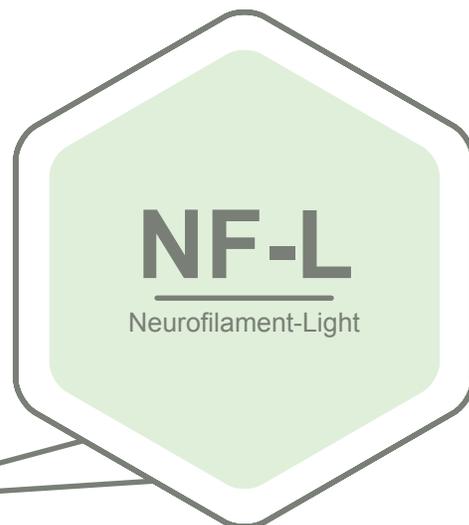
Amount	Price
25µL	\$150
50µL	\$250
250µL	\$550

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Abbreviation Key:

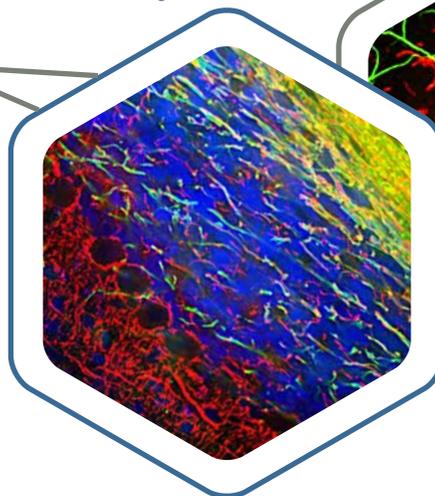
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Neurofilaments are 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-H, NF-M, and NF-L. NF-L is the light or low molecular weight polypeptide which runs on SDS-PAGE gels at about 68 kDa. NF-L antibodies are useful for identifying neuronal cells and their processes in tissue sections and in cell culture. They are widely used as a biomarker in the diagnostics of neurofilament accumulations seen in many neurological disorders, such as ALS, Alzheimer's disease, giant axon neuropathy, CMT and others. Much interest has been focused on the detection of NF-L released from neurons into blood and CSF as a surrogate marker of primarily axonal loss in a variety of CNS injury and degeneration.

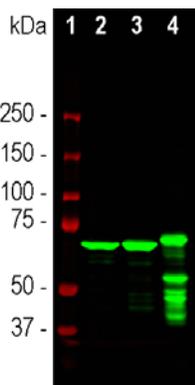
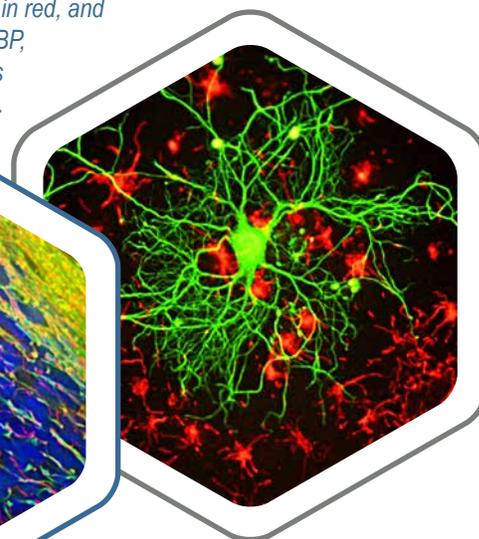


Rat cortex section stained with chicken pAb to NF-L, CPCA-NF-L, in red, and costained with mouse mAb to MBP, MCA-7D2, in green. The blue is Hoechst staining of nuclear DNA.

Mouse cerebellum section stained with rabbit pAb to NF-L, RPCA-NF-L, in red, and costained with chicken pAb to MBP, CPCA-MBP, in green. The blue is Hoechst staining of nuclear DNA.



Rat hypothalamus neuron cell culture stained with mouse mAb to NF-L, MCA-DA2, in green, and costained with rabbit pAb to α -Internexin, RPCA-a-Int, in red.



Mouse mAb to NF-L

Cat# MCA-1B11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFL	AB_2737579	Purified NF-L from porcine spinal cord	IgG1	68kDa	WB: 1:10,000 IF/IHC: 1:2,000	Hu, Rt, Ms, Co, Pi

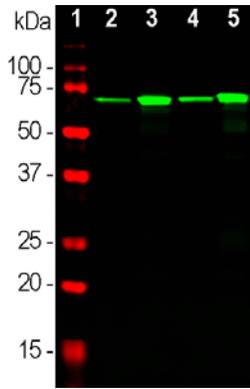
Western blot analysis of lysates from different tissues using mouse mAb to NF-L, MCA-1B11, in green: [1] protein standard, [2] rat brain, [3] mouse brain, [4] cow brain. Band at ~68kDa corresponds to NF-L protein.

Amount	Price
50 μ L	\$120
100 μ L	\$200
500 μ L	\$800

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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



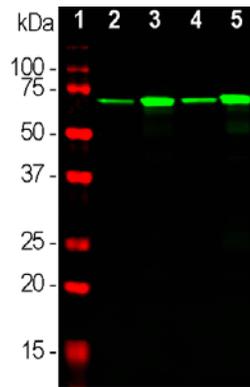
Mouse mAb to NF-L

Cat# MCA-DA2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFL	AB_2572362	Enzymatically dephosphorylated porcine NF-L protein	IgG1	68kDa	WB: 1:5,000 IF/IHC: 1:500	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of whole tissue lysates using mouse mAb to NF-L, MCA-DA2, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. The strong band at 68kDa corresponds to the NF-L protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



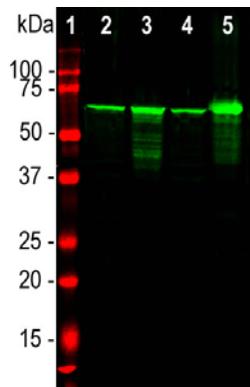
Mouse mAb to NF-L

Cat# MCA-7D1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFL	AB_2572363	Purified NF-L from porcine spinal cord	IgG2b	68kDa	WB: 1:5,000, IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of whole tissue lysates using mouse mAb to NF-L, MCA-7D1, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. The strong band at 68kDa corresponds to the NF-L protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



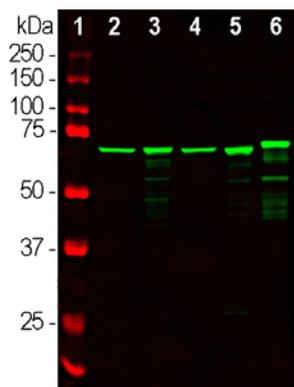
Rabbit pAb to NF-L

Cat# RPCA-NF-L

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFL	AB_2572364	Full-length human recombinant NF-L protein	IgG	68kDa	WB: 1:20,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using rabbit pAb to NF-L, RPCA-NF-L, dilution 1:20,000. in green. [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. The strong band at 68kDa corresponds to the NF-L protein.

Serum + 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Chicken pAb to NF-L

Cat# CPCA-NF-L

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFL	AB_2149931	Full-length human recombinant NF-L protein	IgY	68kDa	WB: 1:20,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of tissue lysates probed with chicken pAb to NF-L, CPCA-NF-L, dilution 1:20,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord and [6] cow spinal cord. Strong band at ~68kDa corresponds to NF-L proteins.

Concentrated IgY preparation in PBS, 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

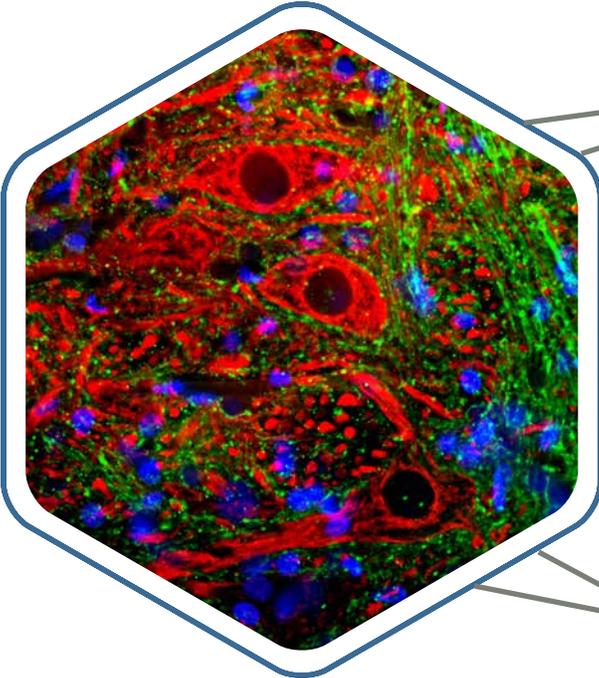
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Rat brain stem section stained with rabbit pAb to NF-M, RPCA-NF-M, in red, and costained with mouse mAb to GAP43, MCA-3H14, in green. The blue is Hoechst staining of nuclear DNA.

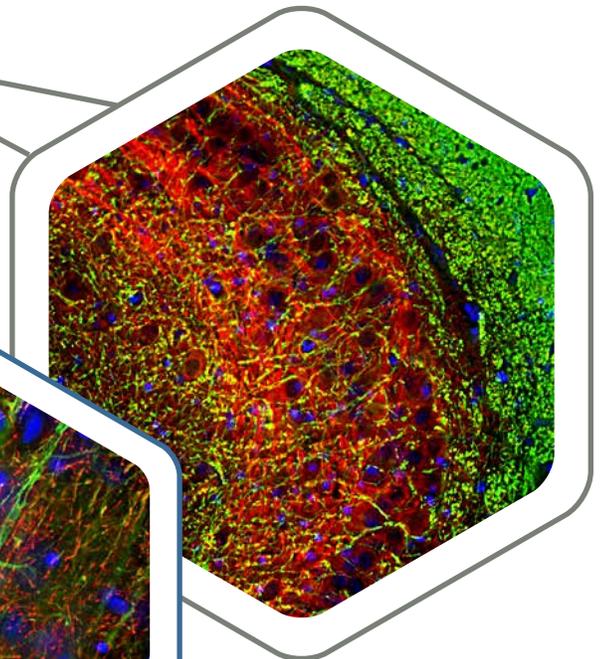


NF-M

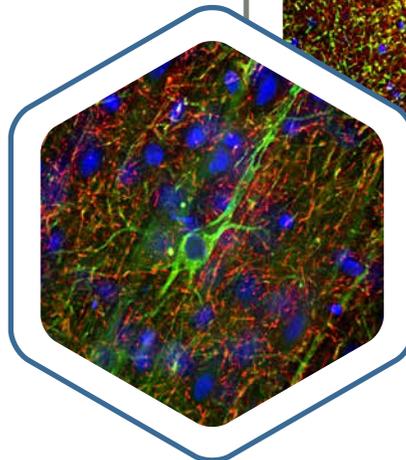
Neurofilament-Medium

Neurofilaments are 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-H, NF-M, and NF-L. NF-M is the neurofilament middle or medium molecular weight polypeptide and runs on SDS-PAGE gels at 145-160 kDa, with some variability across species. Antibodies to NF-M are useful for identifying neuronal cells and their processes in immunofluorescent and immunohistochemical analysis of frozen or paraffin sections, and in neuronal cell culture. Abnormal expression, accumulation or post-translational modifications of neurofilament proteins are found in an increasing number of described neurological diseases, such as Lou Gehrig's disease, Alzheimer's, and other. Detection of neurofilament subunits in blood and CSF might be the good marker for monitoring CNS damage and neuron degeneration.

Rat hippocampus section stained with rabbit pAb to NF-M, RPCA-NF-M, in red, and costained with mouse mAb to MBP, MCA-7D2, in green. The blue is Hoechst staining of nuclear DNA.



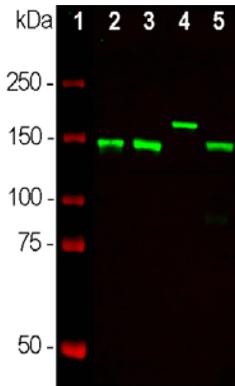
Rat cortex section stained with mouse mAb to NF-M, MCA-3H11, in green, and costained with chicken pAb to NF-H, CPCA-NF-H, in red. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



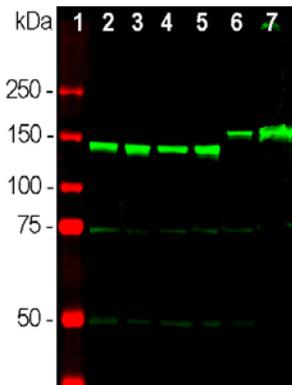
Mouse mAb to NF-M

Cat# MCA-3H11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFM	AB_2572365	Full-length rat recombinant protein	IgG1	145-160kDa	WB: 1:10,000 IF/IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Ho, Ch

Western blot analysis of neuronal tissue lysates using mouse mAb to NF-M, MCA-3H11, dilution 1:10,000 in green: [1] protein standard (red), [2] rat spinal cord, [3] mouse spinal cord, [4] cow spinal cord and [5] rat sciatic nerve. Strong bands at 145-160kDa correspond to NF-M protein with variability between different species.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



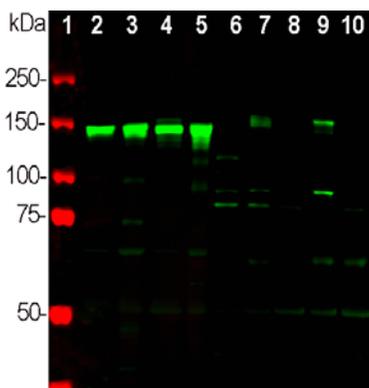
Rabbit pAb to NF-M

Cat# RPCA-NF-M

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFM	AB_2572366	C-terminal segment of rat NF-M, amino acids 549-845	IgG	145-160kDa	WB: 1:2,000 IF/IHC: 1:2,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of neuronal tissue lysates using rabbit pAb to NF-M, RPCA-NF-M, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] pig brain and [7] pig spinal cord. Strong bands at 145-160kDa correspond to NF-M protein with variability between different species.

Serum + 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Chicken pAb to NF-M

Cat# CPCA-NF-M

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
NEFM	AB_2572367	Human recombinant construct (amino acids 708-877)	IgY	145-160kDa	WB: 1:2,000 IF/IHC: 1:500	Hu, Rt, Ms, Co, Pi

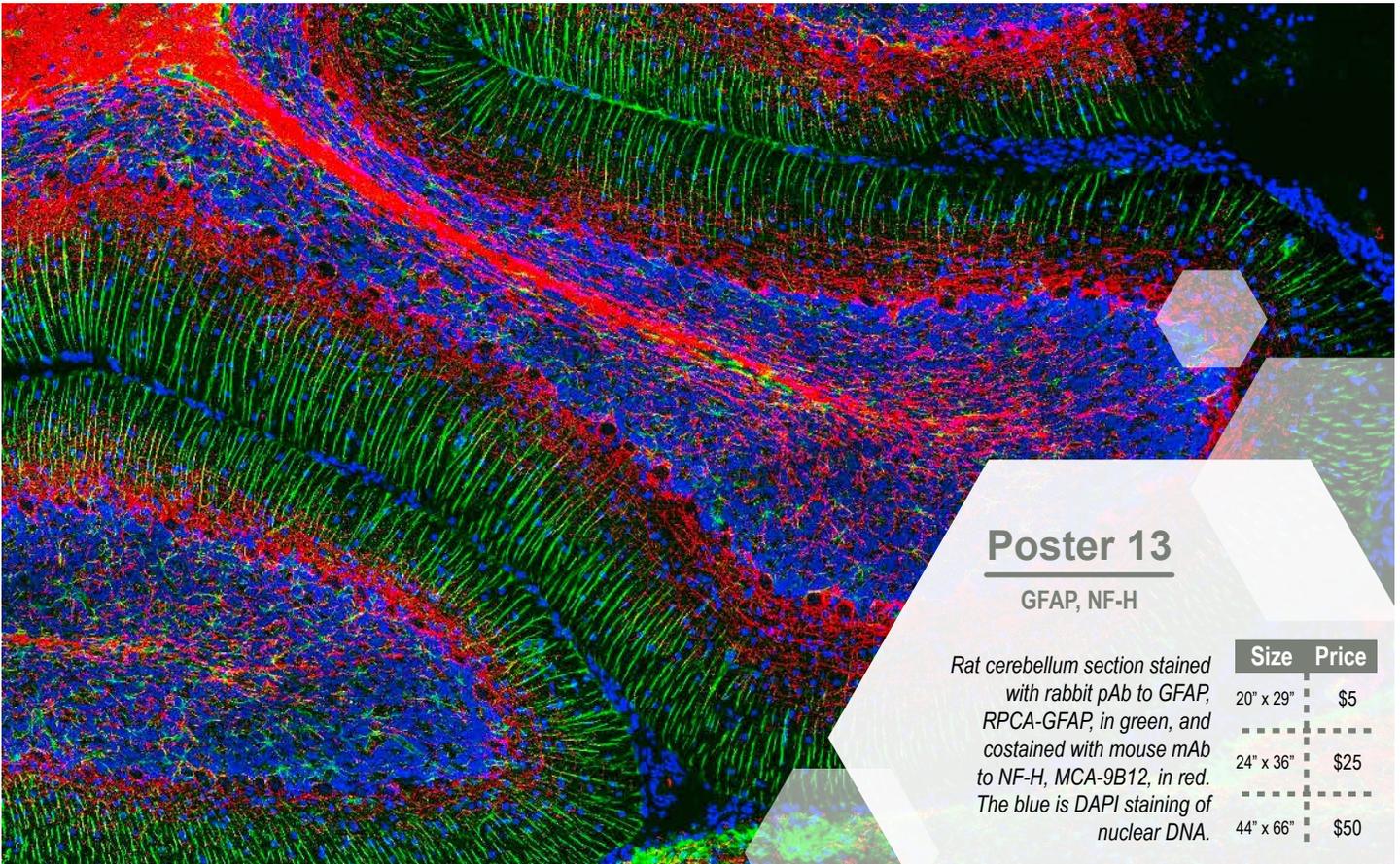
Western blot analysis of different neuronal tissue and cell lysates using chicken pAb to NF-M, CPCA-NF-M, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] NIH/3T3 cells, [7] HEK293, [8] HeLa, [9] SH-SY5Y and [10] C6 cells. Strong bands at 145-160kDa correspond to NF-M protein with variability between different species.

Concentrated IgY preparation in PBS, 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

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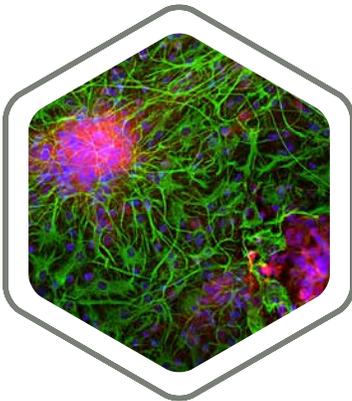
Poster 13

GFAP, NF-H

Rat cerebellum section stained with rabbit pAb to GFAP, RPCA-GFAP, in green, and costained with mouse mAb to NF-H, MCA-9B12, in red. The blue is DAPI staining of nuclear DNA.

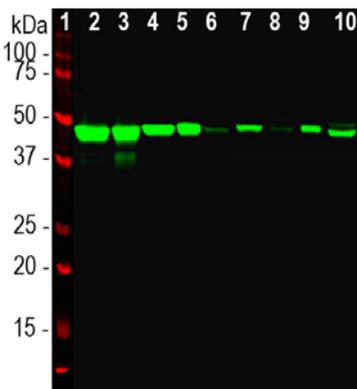
Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

NSE



Rat cortical neuron-glia cell culture stained with NSE, RPCA-NSE, in red, and costained with GFAP, CPCA-GFAP, in green. The blue is Hoechst staining of nuclear DNA.

Neuron Specific Enolase (NSE) is an glycolytic enzyme which catalyzes the conversion of 2-phosphoglycerate to phosphoenol pyruvate, and the reverse reaction in gluconeogenesis. It is one of three mammalian enolases, known as ENO1, ENO2, and ENO3. NSE corresponds to ENO2 and is heavily expressed in neuronal cells. Antibodies to NSE protein are able to identify neuronal cell bodies, developing neuronal lineage and neuroendocrine cells. Release of NSE from damaged neurons into CSF and blood has been used as a biomarker of neuronal injury, and elevated NSE levels in blood and tissues are associated with various neuroendocrine derived tumors.



Rabbit pAb to NSE

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ENO2	AB_2277965	Full-length human recombinant NSE protein	IgG	47kDa	WB: 1:5,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms

Cat# RPCA-NSE

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

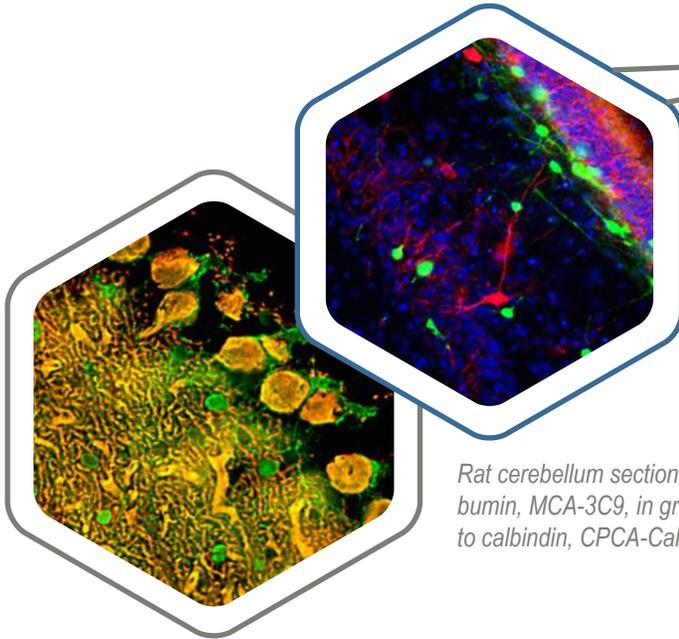
Western blot analysis of different tissue and cell lysates using rabbit pAb to neuron specific enolase (NSE), RPCA-NSE, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] NIH-3T3, [7] HEK293, [8] HeLa, [9] SH-SY5Y and [10] C6 cells. A single band at about 47kDa corresponds to the NSE protein.

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Abbreviation Key: mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

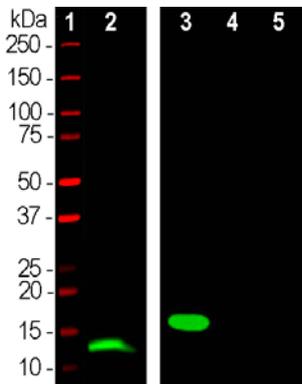
Parvalbumin is a low molecular weight cytoplasmic Calcium binding protein containing the “EF hand” Calcium binding motif. The function of parvalbumin is primarily buffering the Calcium level in cells and affecting intracellular calcium signal. Parvalbumin is expressed in fast-contracting muscles, in the brain, and in some endocrine tissues. In the brain, parvalbumin is particularly concentrated in Purkinje cells and in the interneurons of the molecular layer of cerebellum, it is also expressed in GABAergic interneurons in the cortex. The GABAergic interneurons in most cases express only one of three Calcium binding proteins, known as parvalbumin, calretinin or calbindin. As a result, antibodies to parvalbumin can be useful to identify these interneurons based on their content of three proteins.

Parvalbumin



Rat hippocampus section stained with chicken pAb to parvalbumin, CPCA-Pvalb, in red, and costained with mouse mAb to calretinin, MCA-6A9, in green. The blue is Hoechst staining of nuclear DNA.

Rat cerebellum section stained with mouse mAb to parvalbumin, MCA-3C9, in green, and costained with chicken pAb to calbindin, CPCA-Calb, in red.



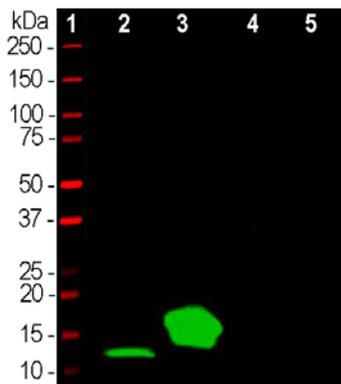
Mouse mAb to Parvalbumin

Cat# MCA-3C9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PVALB	AB_2572372	Full-length human recombinant protein	IgG1	12kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of skeletal muscle lysates and His-tagged human recombinant proteins using mouse mAb to parvalbumin, MCA-3C9, dilution 1:1,000 in green: [1] protein standard (red), [2] mouse muscle, [3] parvalbumin, [4] calretinin and [5] calbindin. A band at 12kDa is detected in muscle lysate and one at 18kDa in the His-tagged recombinant parvalbumin protein

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Chicken pAb to Parvalbumin

Cat# CPCA-Pvalb

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PVALB	AB_2572371	Full-length human recombinant protein	IgY	12kDa	WB: 1:1,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of skeletal muscle lysates and His-tagged recombinant human proteins using chicken pAb to parvalbumin, CPCA-Pvalb, dilution 1:2,000, in green: [1] protein standard (red), [2] mouse muscle, [3] recombinant parvalbumin, [4] recombinant calretinin and [5] recombinant calbindin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

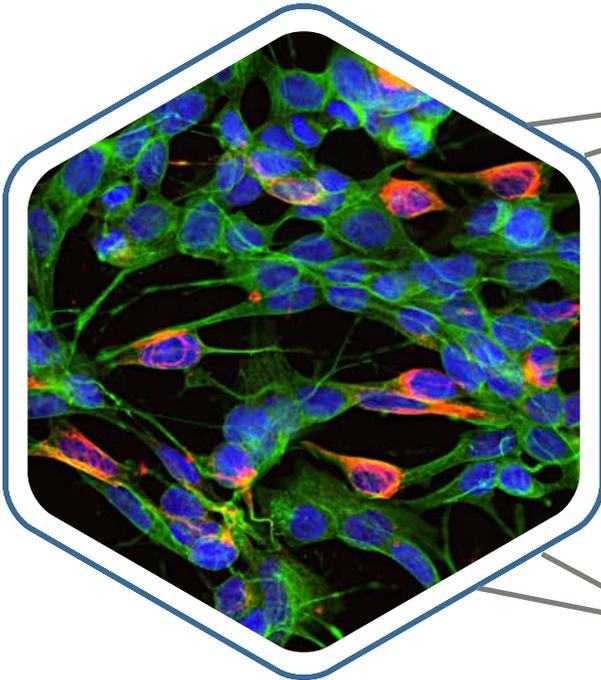
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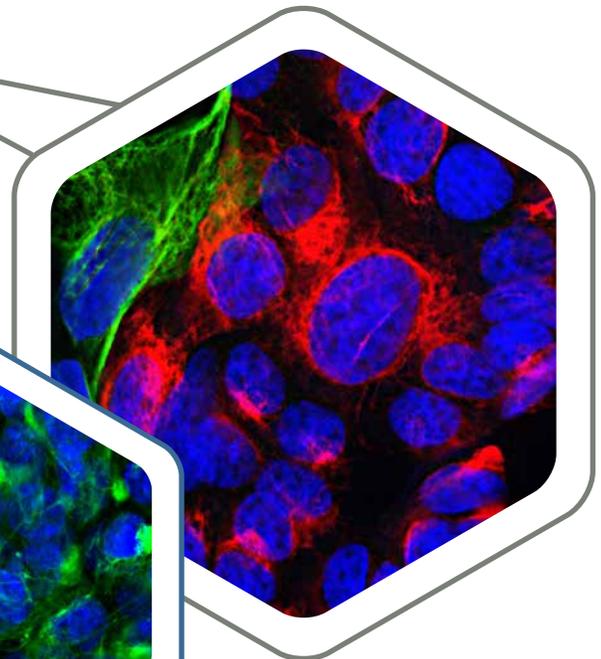
SH-SY5Y cell culture stained with chicken pAb to peripherin, CPCA-Pei, in red, and costained with mouse mAb to β -tubulin, MCA-1B12, in green. The blue is Hoechst staining of nuclear DNA.



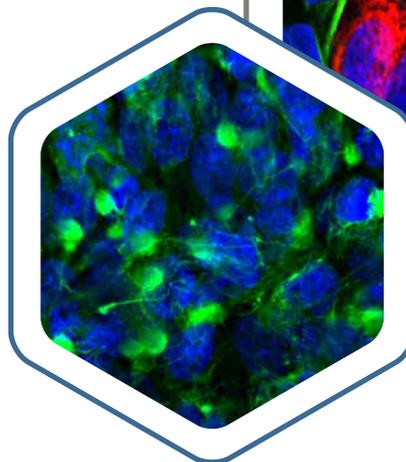
Peripherin

Peripherin is cytoskeletal protein expressed in sensory neurons of the peripheral nervous system. Peripherin was discovered as the major intermediate filament protein in neuroblastoma cell lines and in rat pheochromocytoma PC12 cells. Peripherin is also expressed in some neurons of the CNS such as spinal motor neurons, in some neuroendocrine tumors, and in the insulin producing cells in the pancreas. Peripherin is associated with number of neuropathologies, where aggregates of peripherin have been shown to contribute to neuronal death. The peripherin upregulation seen in aged rat spinal cord might reflect age-related deposition of toxic products. Therefore, antibodies to peripherin can be used in identifying and classifying neurons throughout the nervous system.

PC12 cell culture stained with mouse mAb to peripherin, MCA-8G2, in red, and costained with chicken pAb to vimentin, CPCA-Vim, in green. The blue is Hoechst staining of nuclear DNA.



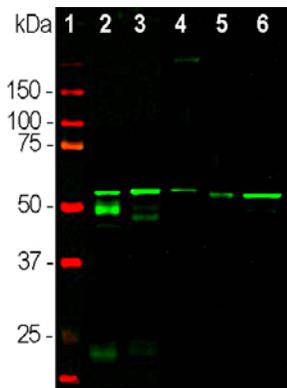
PC12 cell culture stained with rabbit pAb to peripherin, RPCA-Peri, in green. The blue is Hoechst staining of nuclear DNA.



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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



Mouse mAb to Peripherin

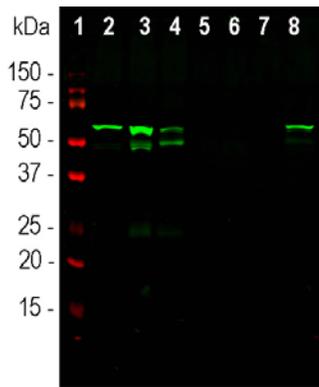
Cat# MCA-8G2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PRPH	AB_2572373	Full-length rat recombinant protein	IgG1	57kDa	WB: 1:500 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co

Western blot analysis of tissue and cell lysates probed with mouse mAb to peripherin, MCA-8G2, dilution 1:500 in green: [1] protein standard (red), [2] mouse spinal cord, [3] rat spinal cord, [4] cow spinal cord, [5] SH-SY5Y cells and [6] PC12 cells. The band at ~57kDa corresponds to the peripherin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3



Mouse mAb to Peripherin

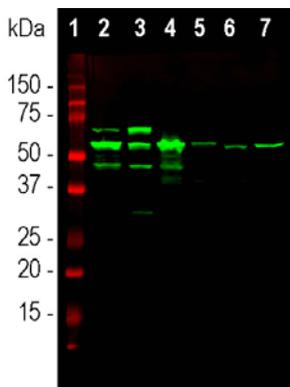
Cat# MCA-7C5

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PRPH	AB_2572374	Recombinant full-length rat protein	IgG	57kDa	WB: 1:1,000 IF/ICC & IHC: 1:2,000	Rt, Ms

Western blot analysis of different tissue and cell lysates using mouse mAb to peripherin, MCA-7C5, dilution 1:1,000 in green: [1] protein standard, [2] rat spinal cord, [3] rat sciatic nerve, [4] mouse spinal cord, [5] pig spinal cord, [6] cow spinal cord, [7] SH-SY5Y cells and [8] PC12 cells. The band at ~57kDa corresponds to the peripherin protein detected only in rat and mouse lysates.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3



Rabbit pAb to Peripherin

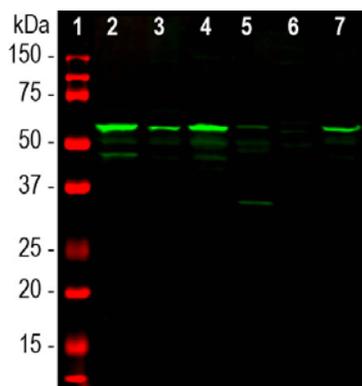
Cat# RPCA-Peri

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PRPH	AB_2572375	Recombinant human Peripherin protein	IgG	57kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Pig, Co

Western blot analysis of different tissue and cell lysates using rabbit pAb to peripherin, RPCA-Peri, dilution 1:10,000 in green: [1] protein standard, [2] rat spinal cord, [3] mouse spinal cord, [4] pig spinal cord, [5] cow spinal cord, [6] SH-SY5Y cells and [7] PC12 cells. The major band at ~57kDa corresponds to the peripherin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

Serum + 5mM NaN3



Chicken pAb to Peripherin

Cat# CPCA-Peri

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
PRPH	AB_2284443	Full-length rat peripherin recombinant protein	IgY	57kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Pi, Co

Western blot analysis of spinal cord tissue lysates (lanes 2-5) and cell lysates (lanes 6 and 7) using chicken pAb to peripherin, CPCA-Peri, dilution 1:10,000 in green: [1] protein standard (red), [2] rat, [3] mouse, [4] pig, [5] cow spinal cord; [6] SH-SY5Y and [7] PC12 cells. The band at ~57kDa corresponds to peripherin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

Concentrated IgY preparation in PBS, 5mM NaN3

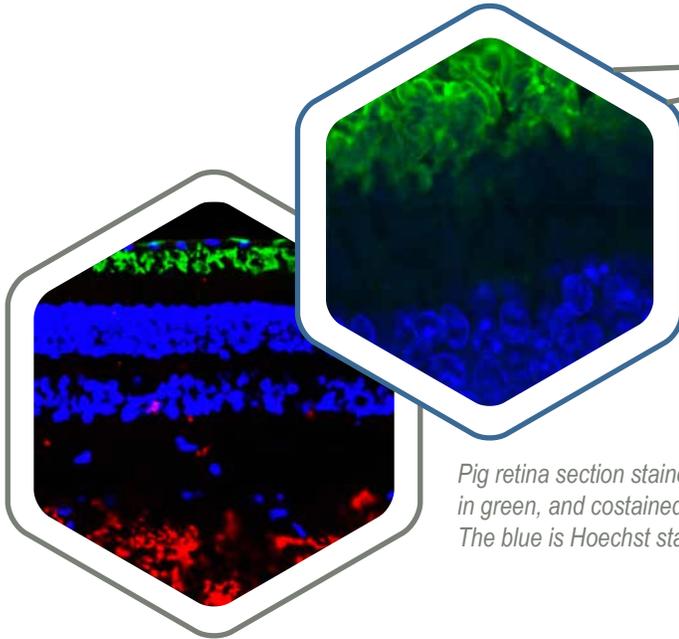
FOR RESEARCH USE ONLY. NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE.

Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

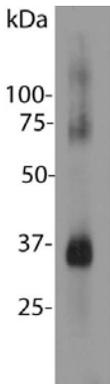
Rhodopsin is a mammalian light-sensitive receptor protein expressed in rod cells and involved in visual phototransduction. Rod cells detect the degree of lightness entering the eye and their sensitivity is dependent on the amount of Rhodopsin, that is destroyed by bleaching on exposure to light and therefore rod cells only work in low light. Rhodopsin protein turned out to be a typical member of the seven transmembrane G protein-coupled receptor (GPCR) superfamily. Whereas other GPCRs initiate signaling on binding a specific ligand, rhodopsin exists with a ligand already bound, specifically the vitamin A related substance retinal. The light causes a conformational change in the receptor bound retinal, which causes a conformational change to the rhodopsin molecule results in altered G protein signalling in the rod cells.

Rhodopsin



Pig retina section stained with mouse mAb to rhodopsin, MCA-B630, in green. The blue is DAPI staining of nuclear DNA.

Pig retina section stained with mouse mAb to rhodopsin, MCA-A531, in green, and costained with rabbit pAb to NF-M, RPCA-NF-M, in red. The blue is Hoechst staining of nuclear DNA.



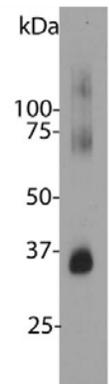
Mouse mAb to Rhodopsin

Cat# MCA-A531

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
RHO	AB_2572378	Purified bovine rhodopsin	IgG1	35kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Rt, Co, Pi

Western blot analysis of bovine retinal extract using mouse mAb to rhodopsin, MCA-A531. Strong band at 35kDa corresponds to the rhodopsin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Mouse mAb to Rhodopsin

Cat# MCA-B630

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
RHO	AB_2572379	Purified bovine rhodopsin	IgG1	35kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Rt, Co, Pi

Western blot analysis of bovine retinal extract using mouse mAb to rhodopsin, MCA-B630. Strong band at 35kDa corresponds to the rhodopsin protein.

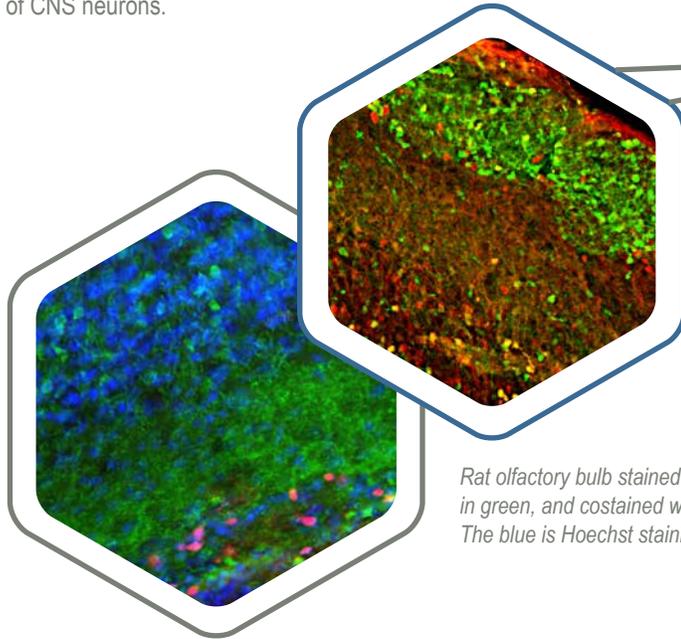
Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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Abbreviation Key:

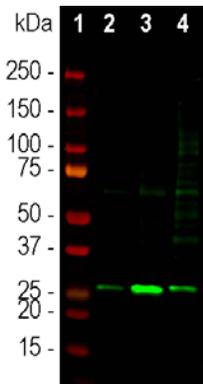
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Secretagogin (SCGN) is a member of the EF-hand (E-helix-loop-F-helix-hand) superfamily of calcium-binding proteins. It is highly expressed in the pancreatic islets of Langerhans and neuroendocrine cells. The expression pattern of secretagogin is not conserved from rodents to humans. While the human brain reveals a maximum expression of it in the cerebellum, the highest expression of secretagogin in rat and mouse brain is found in the olfactory bulb where SCGN-positive neurons were localized throughout layers but clustered in the glomerular layer (GL), mitral cell layer (MCL) and granule cell layer (GCL). SCGN is a strong candidate as a biomarker for endocrine tumors, for neuronal damage, stroke, and eventually psychiatric conditions. The antibodies to secretagogin can be used to identify different classes of CNS neurons.



Rat olfactory bulb section stained with chicken pAb to secretagogin, CPCA-SCGN, in red, and costained with mouse mAb to calretinin, MCA-3G9, in green.

Rat olfactory bulb stained with rabbit pAb to secretagogin, RPCA-SCGN, in green, and costained with mouse mAb to calbindin, MCA-4H7, in red. The blue is Hoechst staining of nuclear DNA.



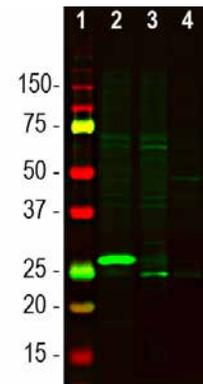
Rabbit pAb to Secretagogin

Cat# RPCA-SCGN

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SCGN	AB_2572380	Full-length human recombinant Secretagogin protein	IgG	27kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates using rabbit pAb to secretagogin, RPCA-SCGN, dilution 1:1,000, in green: [1] protein standard (red), [2] rat pancreas, [3] rat olfactory bulb, and [4] mouse olfactory bulb lysates. The band at 27kDa corresponds to secretagogin protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to Secretagogin

Cat# CPCA-SCGN

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SCGN	AB_2744521	Full-length human recombinant secretagogin protein	IgY	27kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co

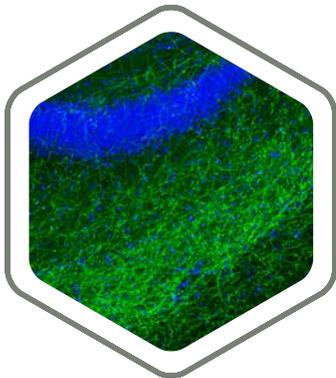
Western blot analysis of tissue lysates using chicken pAb to secretagogin, CPCA-SCGN, dilution 1:1,000 in green: [1] protein standard, [2] mouse olfactory bulb [3] rat cerebellum, and [4] cow cerebellum. The band at ~27kDa corresponds to the secretagogin protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000

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Abbreviation Key:
 mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Serotonin Transporters (SERTs) are integral membrane proteins that transport serotonin from synaptic spaces into presynaptic neurons and glial cells. The transporter protein, by recycling serotonin, regulates its concentration in a synapse, and thus its effects on a receiving neuron's receptors. Serotonin transporters are located in the central, peripheral nervous systems. The neurotransmitter serotonin modulates many sensory and behavioral processes in the nervous system and plays an important role in mood disorders, such as depression and anxiety. The human SERT is the primary target for drugs used in the treatment of emotional disorders. Antibodies to SERT are very good markers for monitoring expression and distribution of serotonin transporter protein during development or experimental modulations.



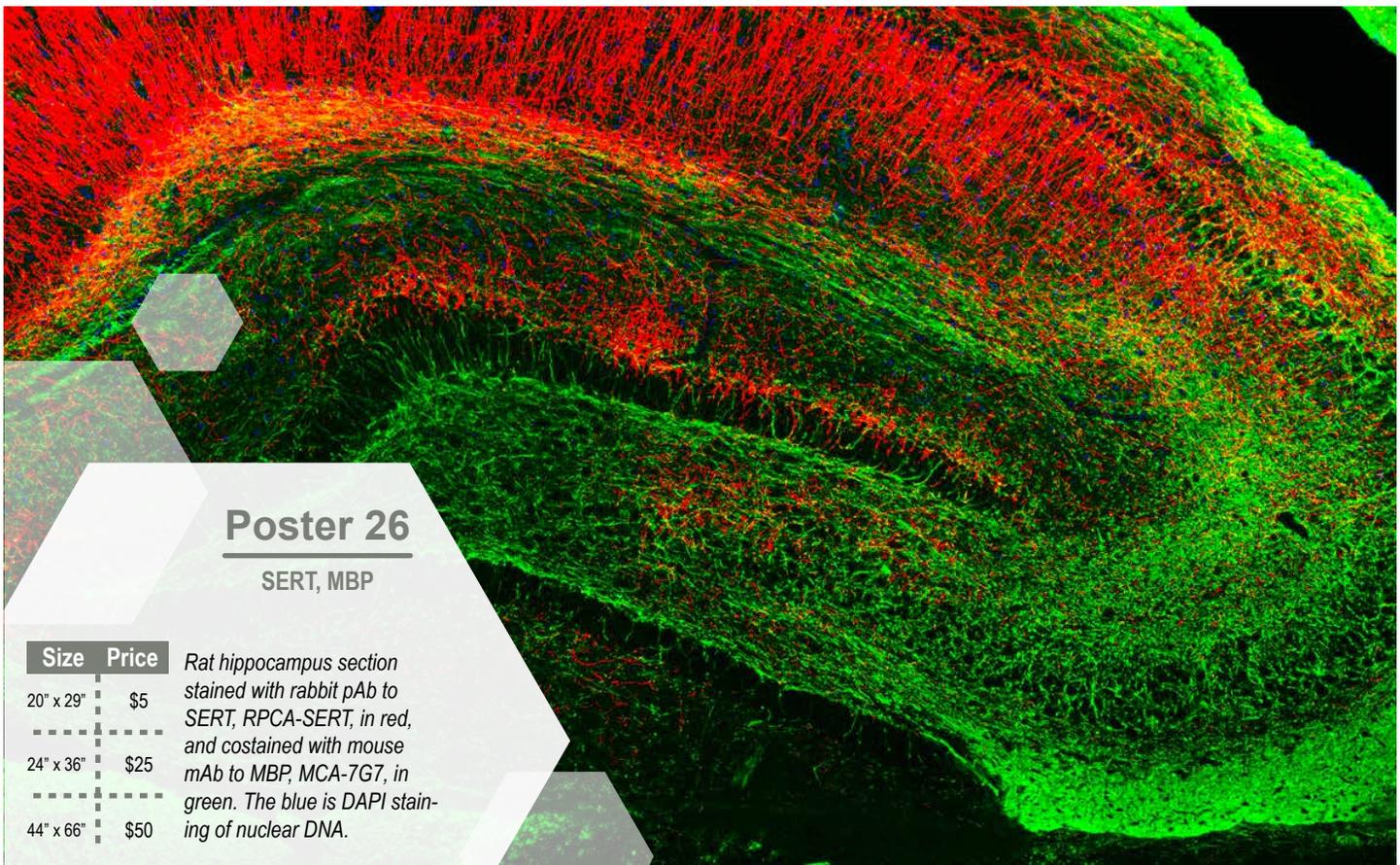
Rabbit pAb to SERT

Cat# RPCA-SERT

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SLC6A4	AB_2744658	KSITPETPTEIPCG-DIRLNAV	IgG	68kDa	IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co

Rat hippocampus section stained with rabbit pAb to serotonin transporter (SERT), RPCA-SERT, in green. The blue is Hoechst staining of nuclear DNA.

	Amount	Price
Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50µL	\$150
	100µL	\$250
	500µL	\$1,000



Poster 26

SERT, MBP

Size Price

20" x 29" \$5

24" x 36" \$25

44" x 66" \$50

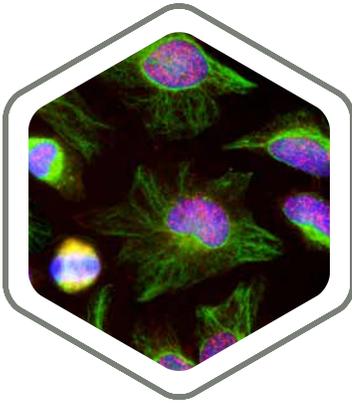
Rat hippocampus section stained with rabbit pAb to SERT, RPCA-SERT, in red, and costained with mouse mAb to MBP, MCA-7G7, in green. The blue is DAPI staining of nuclear DNA.

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Abbreviation Key:

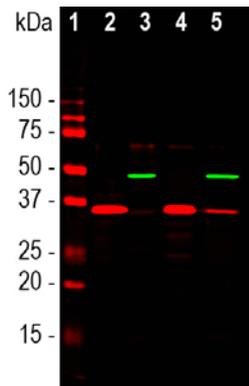
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SF3B4



HeLa cell culture stained with mouse mAb to SF3B4, MCA-3A1, in red, and costained with chicken pAb to vimentin, CPCA-Vim, in green. The blue is Hoechst staining of nuclear DNA.

Splicing factor SF3B4, also known as SAP49, is a ubiquitously expressed protein found in the nuclei of eukaryotic cells. SF3B4 is a critical component of the U2 snRNP spliceosome complex which consists of SF3B4, SAP130, SAP145 and SAP155. Defects in SF3B4 expression are causative of some forms of acrofacial dysostoses, rare but serious developmental disorders. SF3B4 upregulation in cells may lead to increased mRNA splicing which may contribute to oncogenesis, and elevated SF3B4 levels predicts the onset of hepatocellular carcinoma. Antibody to this protein such as MCA-3A1 is a good marker of nuclei and can be used to monitor the nuclear fraction in biochemical experiments and for general studies of this important protein.



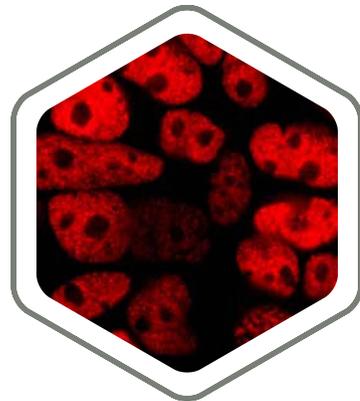
Mouse mAb to SF3B4

Cat# MCA-3A1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SF3B4	AB_2572386	Full-length human recombinant SF3B4 protein	IgG2b	49kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms

Western blot analysis of different cell lysates, cytosol or nuclear enriched fractions, using mouse mAb to splicing factor SF3B4, MCA-3A1, in green: [1] protein standard, [2] NIH-3T3 cytosolic fraction [3] NIH-3T3 nuclear fraction [4] HeLa cytosolic and [5] HeLa nuclear fractions. The band at 49kDa represents SF3B4 protein. The same blot was simultaneously probed with RPCA-GAPDH, in red. The 37kDa band corresponds to GAPDH protein.

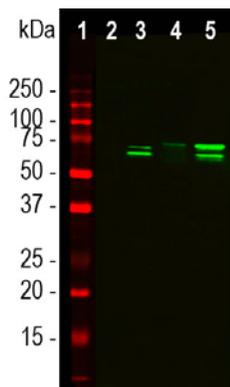
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
	100µL	\$200
	500µL	\$800



HeLa cell culture nuclei stained with mouse mAb to TAF15, MCA-4D71, in red.

TATA-box binding protein associated factor 15 (TAF15) is a member of a family of 3 closely related mammalian RNA binding proteins, the other members being FUS/TLS and EWSR1. TDP43 is a more distant relative of these three, and all four proteins have been implicated in the etiology of various neurological diseases including Lou Gehrig's disease (amyotrophic lateral sclerosis). Similar to FUS/TLS and EWSR1, aberrant chromosomal translocations may produce oncoproteins in which segments of TAF15 are joined to other molecules. The TAF15 protein is heavily expressed in the nucleus, and our antibody is therefore a useful marker of nuclei and can be used to monitor the nuclear fraction in biochemical experiments.

TAF15



Mouse mAb to TAF15

Cat# MCA-4D71

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
TAF15	AB_2572388	Full-length human recombinant protein	IgG1	56-68kDa	WB: 1:1,000 IF/ICC: 1:500	Hu, Rt, Ms

Western blot analysis of cytosol or nuclear enriched fractions of cell line lysates using mouse mAb to TAF15, MCA-4D71, dilution 1:1,000: [1] protein standard, [2] NIH-3T3 cytosol, [3] NIH-3T3 nuclear fraction, [4] HeLa cytosol, and [5] HeLa nuclear fraction. Double band at 56-68kDa detected predominantly in the nuclear enriched fraction corresponds to the TAF15 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
	100µL	\$200
	500µL	\$800

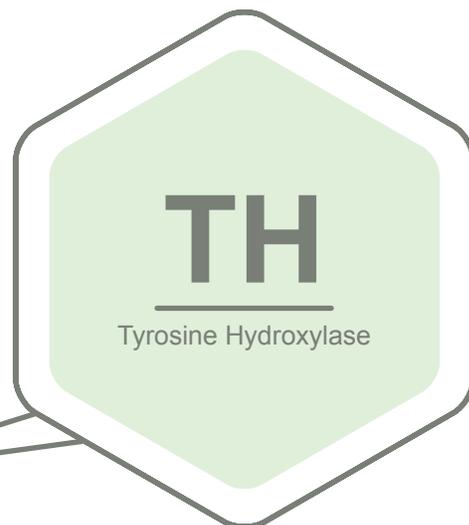
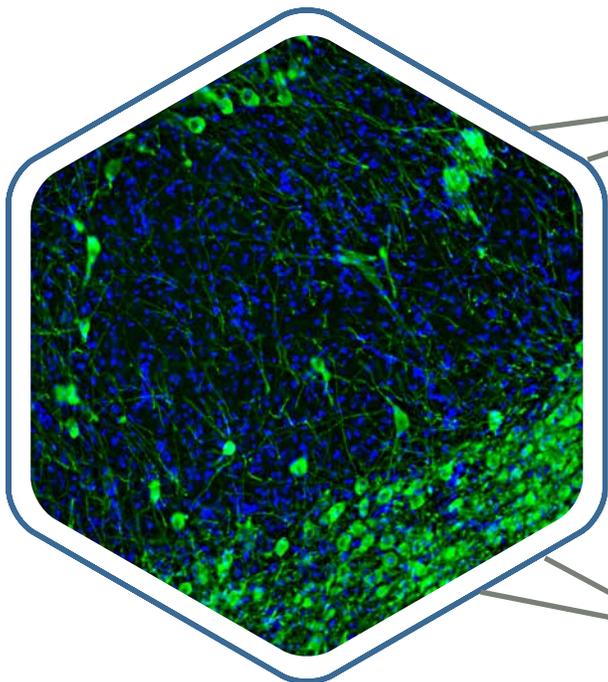
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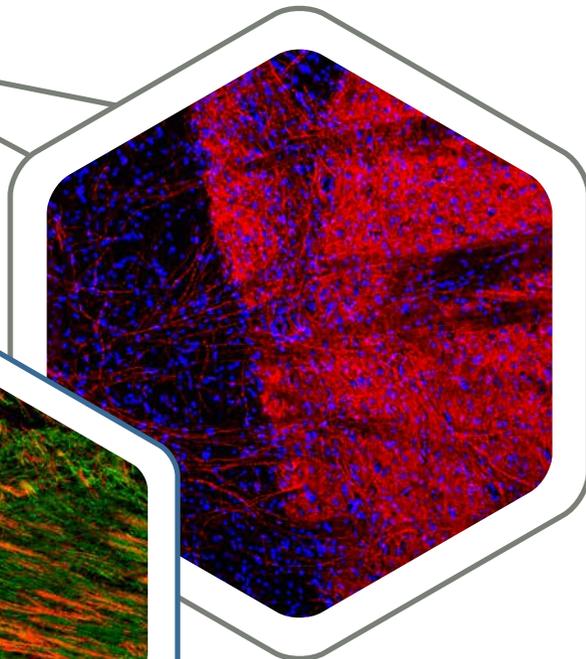
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Rat brain section stained with chicken pAb to tyrosine hydroxylase, CPCA-TH, dilution 1:5,000, in green. The blue is Hoechst staining of nuclear DNA. CPCA-TH antibody stains the chatecholaminergic neurons and their processes of the substantia nigra.

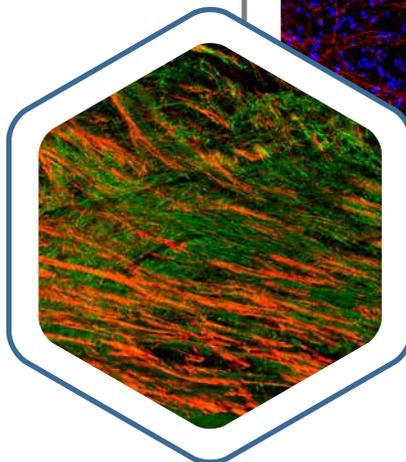


Tyrosine hydroxylase (TH) is vital enzyme which catalyzes first step of the biosynthesis of catecholamines (dopamine, noradrenaline, and adrenaline). TH has a huge impact on brain function and behavior. Decreased expression of TH is associated with various neuropsychiatric diseases such as schizophrenia and Parkinson's disease. Activity of TH can be regulated by phosphorylation. The *TH* gene expression produces a number of TH isoforms by alternative splicing. Human TH exists in four isoforms (hTH1-4) while a single mRNA and protein corresponding to hTH1 found in non-primates. Antibodies to TH therefore are useful tools for the identification and mapping of the dopaminergic, adrenergic and noradrenergic neurons present in the brain and spinal cord.

Rat brain section stained with mouse mAb to tyrosine hydroxylase, MCA-4H2, dilution 1:1,000, in red. The blue is Hoechst staining of nuclear DNA. MCA-4H2 antibody stains the striatal TH-expressing interneurons.



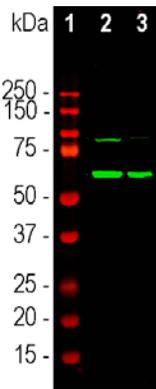
Rat brain section stained with rabbit pAb to tyrosine hydroxylase, RPCA-TH, in red and costained with mouse mAb to pNF-H, MCA-AH1, in green. The blue is Hoechst staining of nuclear DNA.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—*D. melanogaster* Sc—*S. cerevisiae* Sa—*S. aureus*



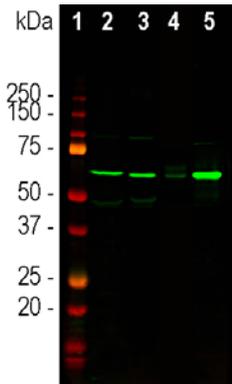
Mouse mAb to TH

Cat# MCA-4H2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
TH	AB_2737415	Full-length human recombinant protein	IgG1	60kDa	WB: 1:5,000 IF/ICC & IHC: 1:1,000	Hu, Ms, Rt

Western blot analysis of tissue and cell lysates using mouse mAb to tyrosine hydroxylase, MCA-4H2, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain caudate/putmen and [3] PC12 cells. The strong band at ~60kDa corresponds to TH protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



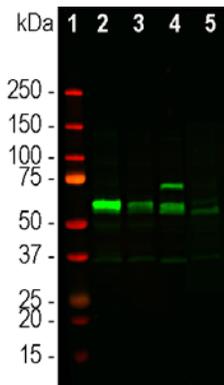
Rabbit pAb to TH

Cat# RPCA-TH

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
TH	AB_2737417	Full-length human recombinant protein	IgG	60kDa	WB: 1:5,000 IF/ICC & IHC: 10,000	Hu, Rt, Ms, Co

Western blot analysis of different tissue and cell lysates using rabbit pAb to tyrosine hydroxylase, RPCA-TH, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] mouse brain, [4] SH-SY5Y cells and [5] PC12 cells. Strong band at ~60kDa corresponds to TH protein.

Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000



Chicken pAb to TH

Cat# CPCA-TH

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
TH	AB_2737416	Full-length human recombinant protein	IgY	60kDa	WB: 1:50,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co

Western blot analysis of different tissue lysates using chicken pAb to tyrosine hydroxylase, CPCA-TH, dilution 1:50,000 in green: [1] protein standard (red), [2] rat brain caudate putmen region, [3] rat brain striatum region, [4] mouse brain without cerebellum and [5] cow midbrain part. Strong band at ~60kDa corresponds to TH protein.

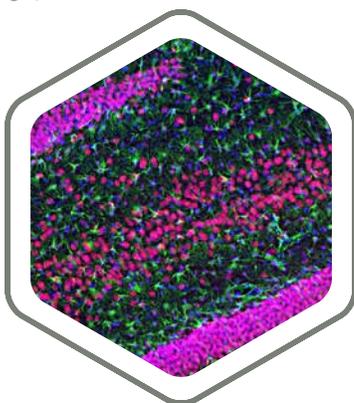
Amount	Price
50µL	\$150
100µL	\$250
500µL	\$1,000

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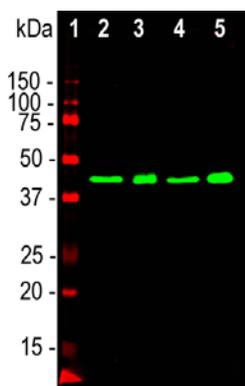
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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

TDP43



Rat hippocampus section stained with mouse mAb to TDP43, MCA-3H8, in red, and costained with chicken pAb to GFAP, CPCA-GFAP, in green. The blue is Hoechst staining of nuclear DNA.

The protein is referred to by the acronym TDP43, meaning "TAR DNA binding protein with molecular weight of 43kDa". TDP43 contains 2 RNA-recognition motifs that allow it to bind single stranded DNA and RNA. TDP43 is highly conserved and ubiquitously expressed in a variety of tissues including brain. In the brain, TDP43 is localized in the nucleus of neurons and some glial cells. A number of studies have confirmed its association with the inclusions bodies seen in frontotemporal lobar degeneration and ALS patients. TDP43 is present in these inclusions in a partially degraded, hyperphosphorylated and ubiquitinated form. MCA-3H8 antibody to TDP43 works great on WB, IF, ICC, and IHC applications.



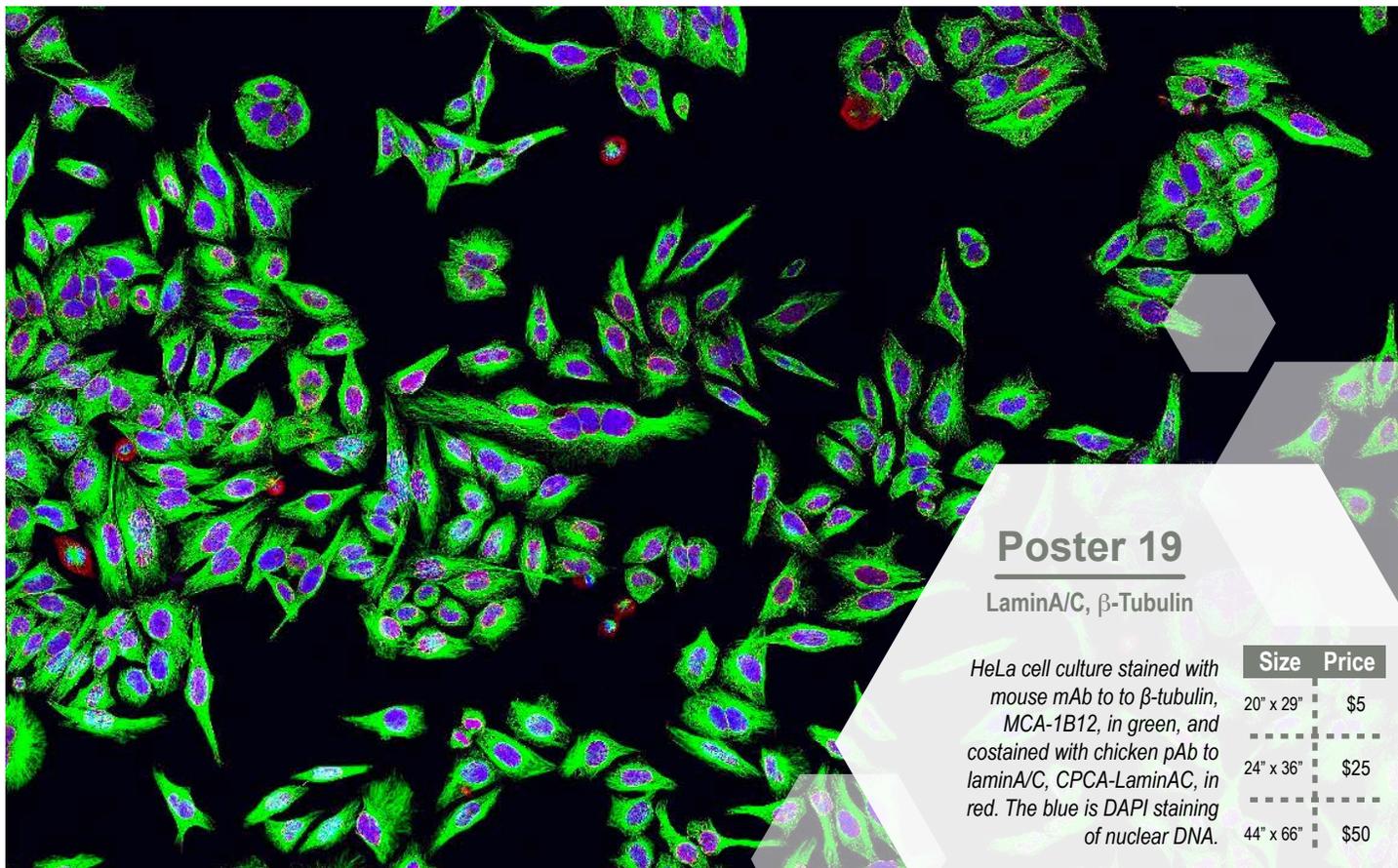
Mouse mAb to TDP43

Cat# MCA-3H8

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
TARDBP	AB_2572387	Full-length human recombinant protein	IgG1	43kDa	WB: 1:2,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Hot

Western blot analysis of whole brain lysates and nuclear enriched extract using mouse mAb to TDP43, MCA-3H8, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat brain nuclear extract, [4] mouse brain, [5] mouse brain nuclear extract. Strong band at 43 kDa mark corresponds to TDP43 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



Poster 19

LaminA/C, β -Tubulin

HeLa cell culture stained with mouse mAb to β -tubulin, MCA-1B12, in green, and costained with chicken pAb to laminA/C, CPCA-LaminAC, in red. The blue is DAPI staining of nuclear DNA.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

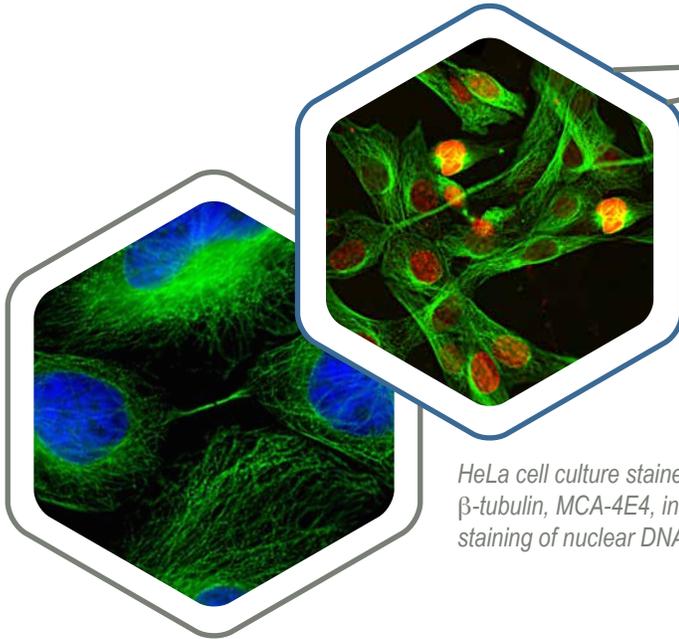
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Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

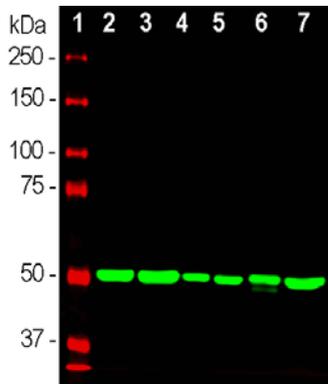
Tubulins are cytoskeletal proteins, major components of cytoplasmic microtubules composed predominantly of heterodimers of an α - and a β -tubulin subunit. Tubulin proteins are involved in a number of essential cellular functions including the maintenance of cell shape, transport, motility, cell signaling, and mitosis. β -tubulin is regarded as a “house keeping” protein which is generally not much altered in expression in a process of experimental manipulations. As a result, antibodies to β -tubulin are widely used as loading controls in western blot applications, and also for generating beautiful IF images of microtubules in cells grown in culture.

β -Tubulin



C6 cell culture stained with mouse mAb to β -tubulin, MCA-1B12, in green, and costained with rabbit pAb to Ki67, RPCA-Ki67, in red.

HeLa cell culture stained with mouse mAb to β -tubulin, MCA-4E4, in green. The blue is Hoechst staining of nuclear DNA.



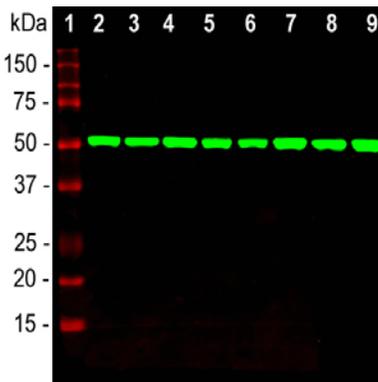
Mouse mAb to β -Tubulin

Cat# MCA-1B12

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
TUBB	AB_2572389	Purified Tubulin from porcine brain	IgG2b	50kDa	WB: 1:10,000 IF/ICC: 1:5,000	Hu, Rt, Ms, Co, Mo, Ho, Do, Pi

Western blot analysis of different tissue or cell lysates using mouse mAb to β -tubulin, MCA-1B12, dilution 1:10,000 in green: [1] protein standard (red), [2] adult rat brain, [3] adult mouse brain, [4] NIH-3T3 cells, [5] HEK293 cells, [6] HeLa cells, [7] SH-SY5Y cells. Strong band at \sim 50kDa corresponds to the β -tubulin protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800



Mouse mAb to β -Tubulin

Cat# MCA-4E4

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
TUBB	AB_2492290	Purified Tubulin from porcine brain	IgG2a	50kDa	WB: 1:5,000 IF/ICC: 1:1,000	Hu, Rt, Ms, Co, Mo, Ho, Do, Pi

Western blot analysis of different cell line and whole brain lysates using mouse mAb to β -tubulin MCA-4E4, dilution 1:5,000 in green: [1] protein standard (red), [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS-1, [6] NIH-3T3, [7] C6 cells, [8] rat brain and [9] mouse brain. Strong band at 50 kDa corresponds to the β -tubulin proteins.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800

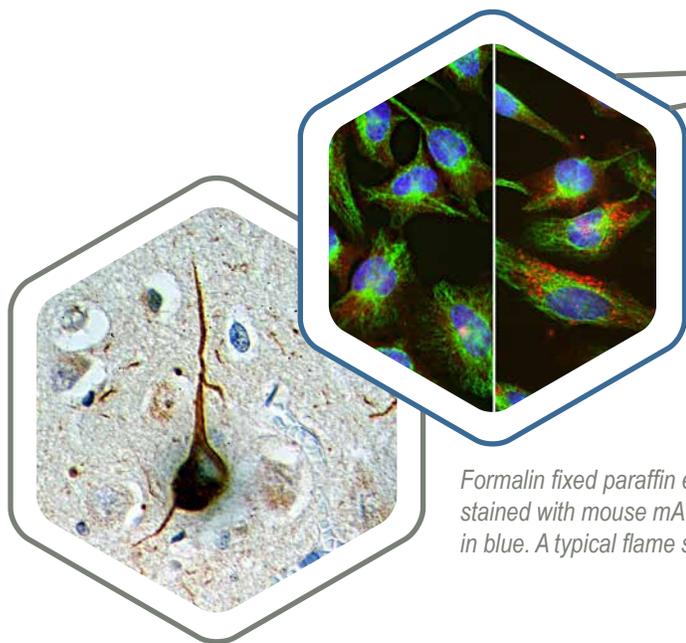
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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

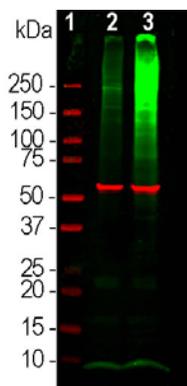
Ubiquitin is a highly conserved 76 amino acid protein of about 8.5 kDa molecular weight. It plays an important role in the targeting of proteins for proteolytic degradation and other functions. Proteins to be degraded are covalently coupled to the C-terminus of ubiquitin, and a polyubiquitinated complex is then recognized by a group of degradative enzymes that together form the proteasome. Ubiquitin also is covalently bonded to pathological inclusions such as the neurofibrillary tangles of Alzheimer's, the Lewy bodies of Parkinson's, and the Pick bodies of Pick's diseases, all of which are resistant to normal degradation. Ubiquitin antibodies have become widely used to study these ubiquitinated inclusions for many years, as well as to monitor formation of protein aggregates in cells with disrupted proteasome pathways.

Ubiquitin



HeLa cell culture stained with rabbit pAb to ubiquitin, RPCA-Ubi, in red, and costained with chicken pAb to vimentin, CPCA-Vim, in green. The blue is Hoechst staining of nuclear DNA. Left: Control HeLa cells. Right: HeLa cells treated with 10µM lactacystin for 24 hours.

Formalin fixed paraffin embedded section of cerebral cortex from a patient with Alzheimer disease stained with mouse mAb to ubiquitin, MCA-Ubi-1, in brown, and counterstained with haematoxylin in blue. A typical flame shaped tangle, seen in a pyramidal neuron, is strongly ubiquitin positive.

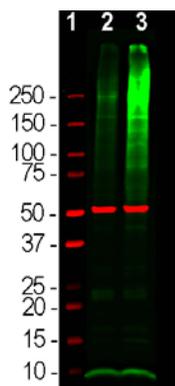


Mouse mAb to Ubiquitin

Cat# MCA-Ubi-1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity	
UBB, UBC	AB_2572391	Purified ubiquitin conjugated glutaraldehyde to KLH	IgG1	8.5kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Ho, Co, Pi, Ch, Dm, C. Elegans	
						Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3						50µL	\$120
						100µL	\$200
						500µL	\$800

Western blot analysis of HEK293 cell lysates using mouse mAb to ubiquitin, MCA-Ubi-1, dilution 1:1,000 in green. [1] protein standard (red), [2] cells maintained in normal medium, [3] cells treated with 10µM of proteasome inhibitor lactacystin for 16 hours. The same blot was simultaneously probed with rabbit pAb to HSP60, RP-CA-HSP60, dilution 1:5,000 in red, used as a loading control.



Rabbit pAb to Ubiquitin

Cat# RPCA-Ubi

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity	
UBB, UBC	AB_2253901	Purified ubiquitin with glutaraldehyde to KLH	IgG	8.5kDa	WB: 1:5,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms	
						Amount	Price
Serum + 5mM NaN3						50µL	\$120
						100µL	\$200
						500µL	\$800

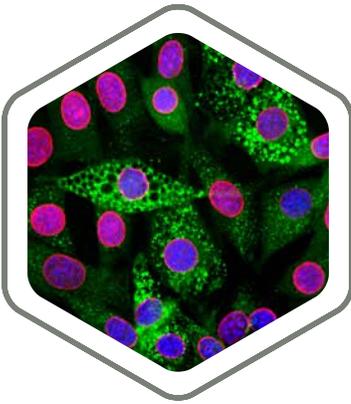
Western blot analysis of HEK293 cell lysates using rabbit pAb to ubiquitin, RPCA-Ubi, dilution 1:5,000 in green and mouse mAb to β-tubulin, MCA-1B12, dilution 1:10,000, in red, used as a loading control. [1] protein standard (red), [2] cells maintained in normal medium, [3] cells treated with proteasome inhibitor lactacystin at 10µM for 16 hours.

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Abbreviation Key:

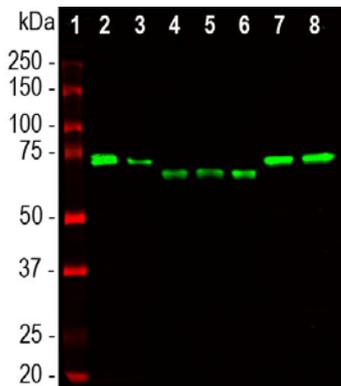
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Ubiquilin 2



NIH-3T3 cells treated with chloroquin stained with mouse mAb to ubiquilin 2, MCA-6H9, in green, and costained with chicken pAb to laminA/C, CPCA-LaminAC, in red. The blue is Hoechst staining of nuclear DNA.

Ubiquilin 2, also known as PLIC2 and Chap1, is a member of the ubiquilin protein family, which regulates the degradation of cellular proteins through proteasome or autophagy-like pathways. All ubiquilins contain an N-terminal ubiquitin-like (UBL) domain and a C-terminal ubiquitin-associated (UBA) domain, while the central part of the molecules are highly variable. The UBL domains bind subunits of the proteasome, and the UBA domains bind to polyubiquitin chains, typically conjugated onto proteins marked for proteosomal degradation. Antibodies to Ubiquilin 2 are useful to study protein degradation through proteasome or autophagy pathways inside the cells.



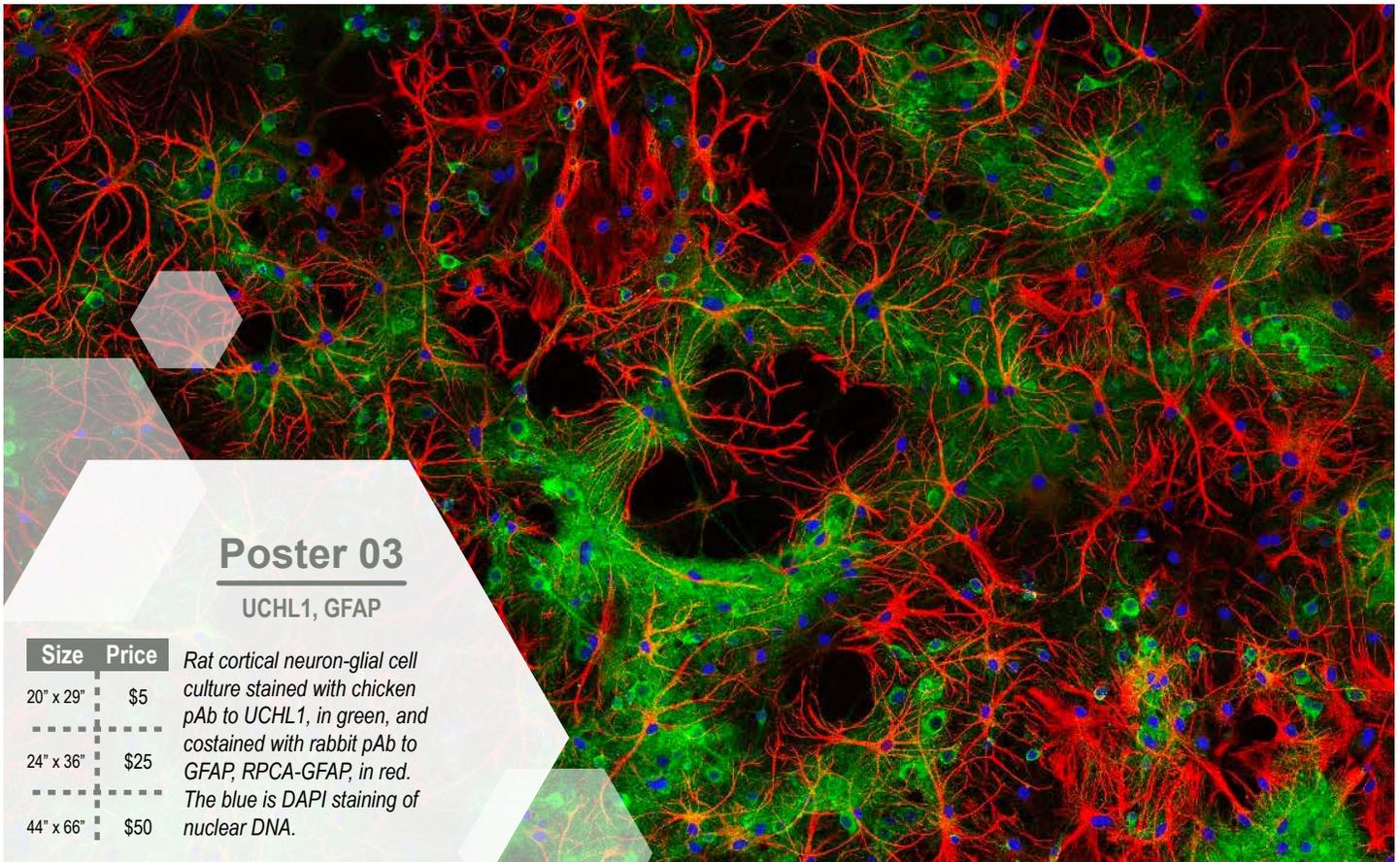
Mouse mAb to Ubiquilin 2

Cat# MCA-6H9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
UBQLN2	AB_2572390	recombinant human ubiquilin 2 protein	IgG1	66-68kDa	WB: 1:1,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Do

Western blot analysis of different tissue and cell lysates using mouse mAb to ubiquilin 2, MCA-6H9, dilution 1:1,000 in green: [1] protein standard (red), [2] NIH-3T3, [3] C6, [4] HEK293, [5] HeLa, [6] SH-SY5Y, [7] rat whole brain and [8] mouse whole brain. The band at 65-70kDa corresponds to ubiquilin 2 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
	100µL	\$200
	500µL	\$800



Poster 03

UCHL1, GFAP

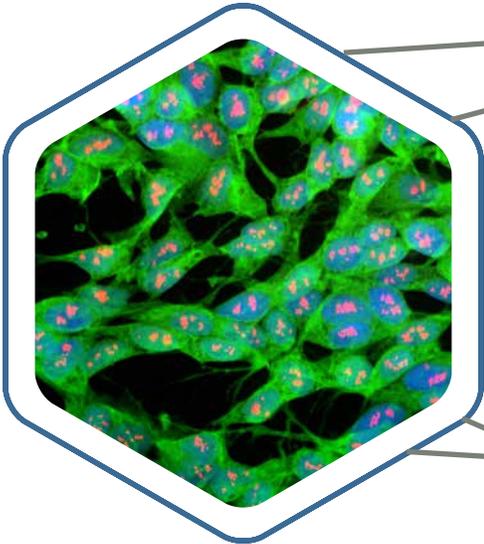
Size	Price	Description
20" x 29"	\$5	Rat cortical neuron-glia cell culture stained with chicken pAb to UCHL1, in green, and costained with rabbit pAb to GFAP, RPCA-GFAP, in red. The blue is DAPI staining of nuclear DNA.
24" x 36"	\$25	
44" x 66"	\$50	

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Abbreviation Key:

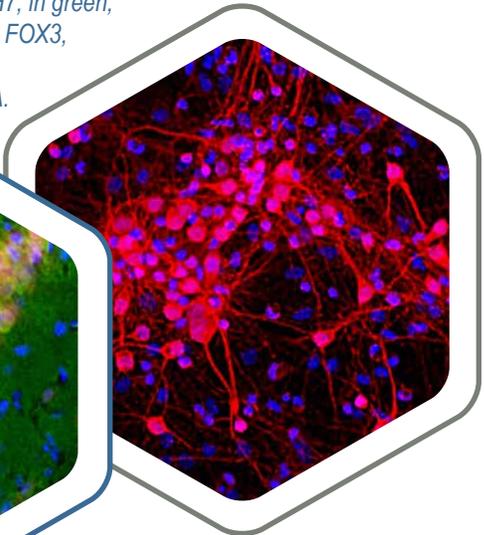
mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Ubiquitin C-terminal hydrolase 1 (UCHL1) is an enzyme that cleaves ubiquitin from other molecules. This activity is important to generate mono-ubiquitin from polyubiquitin chains fused to other proteins, allowing the ubiquitin monomer to be recycled. Many neurological diseases are associated with defects in the ubiquitin pathway such as human Parkinson's disease. UCHL1 is very abundant in brain, where it is localized only in neurons. Antibodies to UCHL1 therefore can be used to identify neurons in histological sections and in cell culture. The detection of UCHL1 in blood, CSF, and other bodily fluids can be used as a biomarker of neuronal injury or degeneration following brain or spinal cord traumatic injuries.

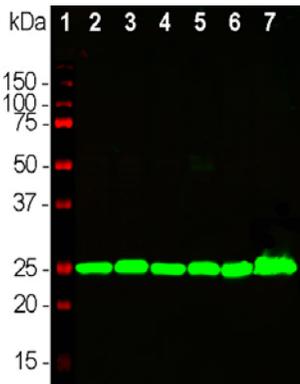
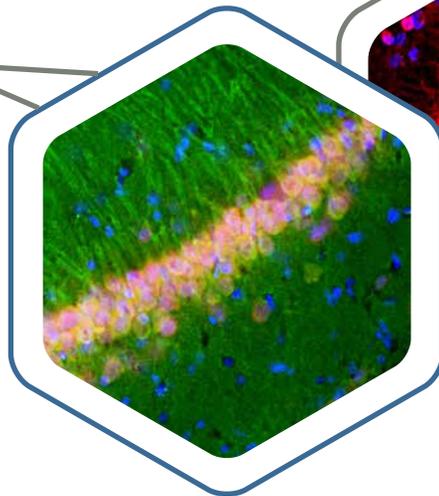


Rat hippocampus section stained with mouse mAb to UCHL1, MCA-BH7, in green, and costained with rabbit pAb to FOX3, RPCA-FOX3, in red. The blue is Hoechst staining of nuclear DNA.

Rat cortical neuron-glia cell culture stained with chicken pAb to UCHL1, CPCA-UCHL1, in red. The blue is Hoechst staining of nuclear DNA.



SH-SY5Y cell culture stained with rabbit pAb to UCHL1, RPCA-UCHL1, in green, and costained with mouse mAb to fibrillarin, MCA-38F8, in red. The blue is Hoechst staining of nuclear DNA.



Mouse mAb to UCHL1

Cat# MCA-BH7

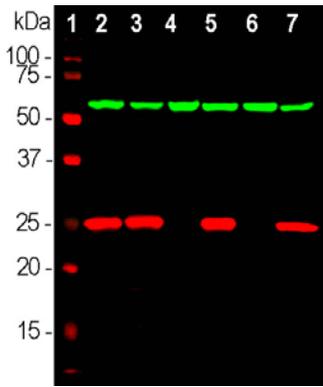
HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
UCHL1	AB_2572394	Full-length human recombinant protein	IgG1	24kDa	WB: 1:10,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Co, Pi, Do

Western blot analysis of tissue lysates using mouse mAb to UCHL1, MCA-BH7, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] pig brain, [7] pig spinal cord. The single band at 24kDa corresponds to the UCHL1 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

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Abbreviation Key: mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



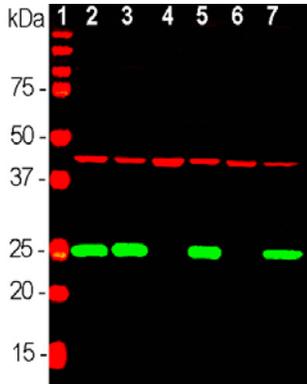
Rabbit pAb to UCHL1

Cat# RPCA-UCHL1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
UCHL1	AB_2210932	Full-length human recombinant UCHL1 protein	IgG	24kDa	WB: 1:2,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co, Pi, Mo, Do

Western blot analysis of different tissue and cell lysates using rabbit pAb to UCHL1, RPCA-UCHL1, dilution 1:2,000 in red, and mouse mAb to HSP60, MCA-1C7, dilution 1:10,000, in green: [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa, [7] SH-SY5Y cells. The single band at 24kDa corresponds to the UCHL1 protein.

	Amount	Price
Serum + 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800



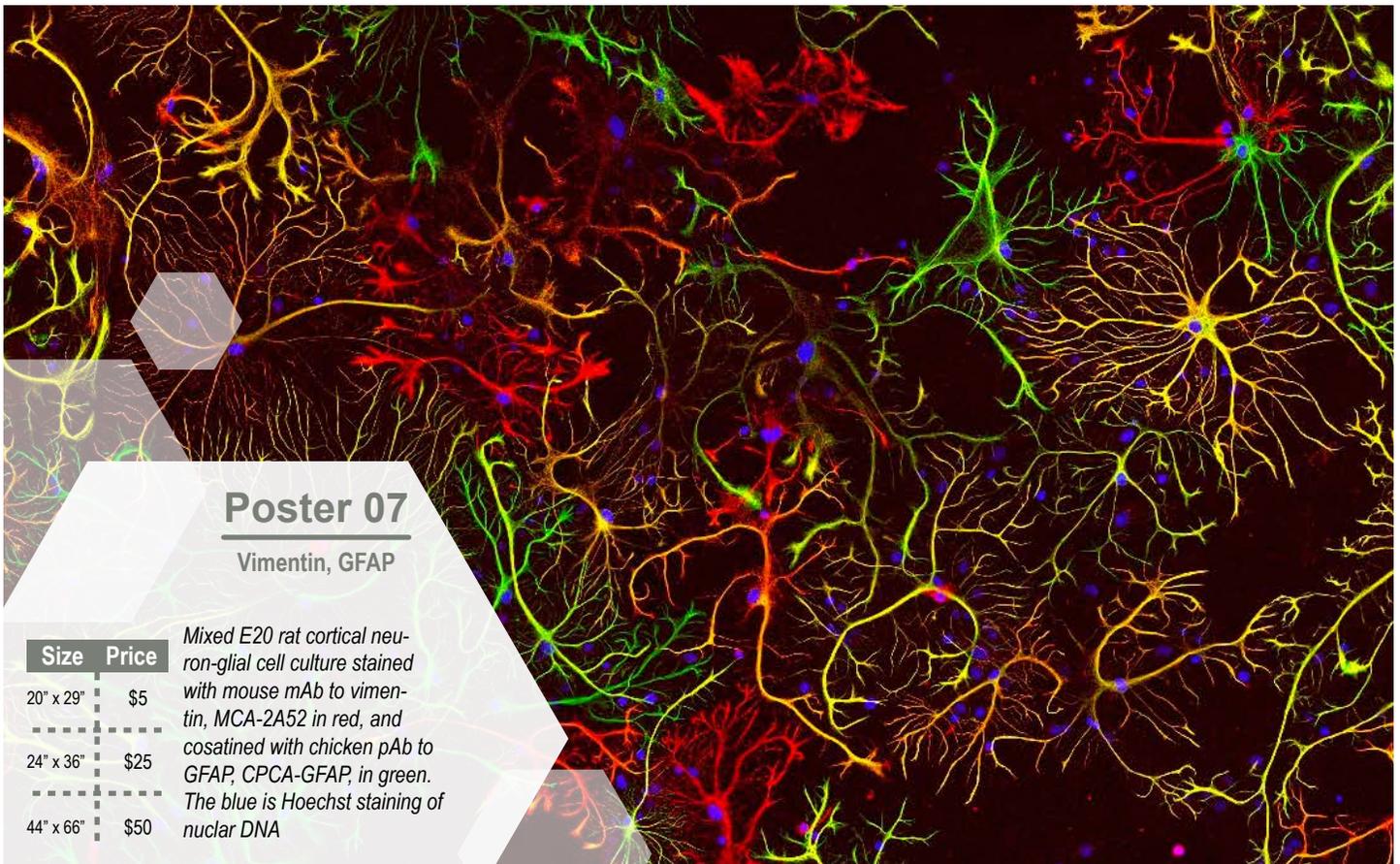
Chicken pAb to UCHL1

Cat# CPCA-UCHL1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
UCHL1	AB_2572393	Full-length human recombinant UCHL1 protein	IgY	24kDa	WB: 1:2,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of equal amounts of different tissue and cell lysates using chicken pAb to UCHL1, CPCA-UCHL1, dilution 1:2,000 in green, and mouse mAb to actin, MCA-5J11, dilution 1:1,000, in red: [1] protein standard, [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa and [7] SH-SY5Y cells. The single band at 24kDa corresponds to UCHL1 protein.

	Amount	Price
Concentrated IgY preparation in PBS, 5mM NaN3	50µL	\$120
	100µL	\$200
	500µL	\$800



Poster 07

Vimentin, GFAP

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

Mixed E20 rat cortical neuron-glia cell culture stained with mouse mAb to vimentin, MCA-2A52 in red, and costained with chicken pAb to GFAP, CPCA-GFAP, in green. The blue is Hoechst staining of nuclear DNA

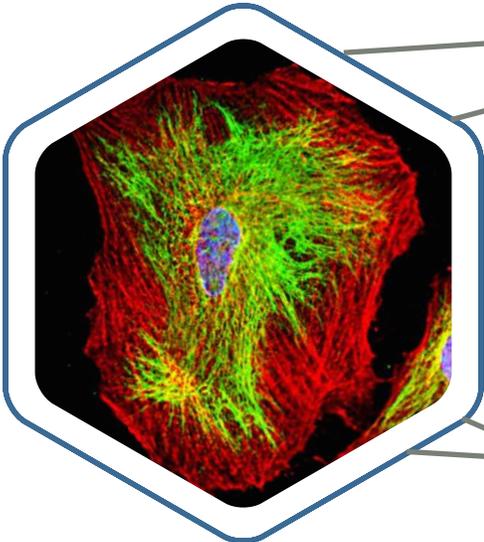
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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

Vimentin is a 57kDa type III intermediate filament protein found in many types of cells throughout the CNS and body. Many cell lines such as HEK293, HeLa, COS, 3T3, SH-SY5Y and many others contain prominent vimentin networks. In the mature CNS vimentin is expressed in endothelial cells, fibroblasts, microglia, Bergmann glia, Müller glia, tanycytes, columnar epithelial and some astrocytes. Vimentin plays a significant role in supporting and anchoring the position of organelles in the cytosol, and is responsible for maintaining cell shape and stabilizing cytoskeletal interactions.

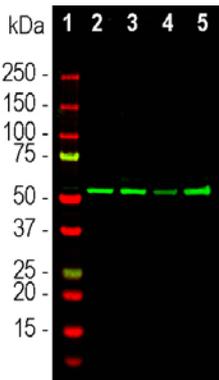
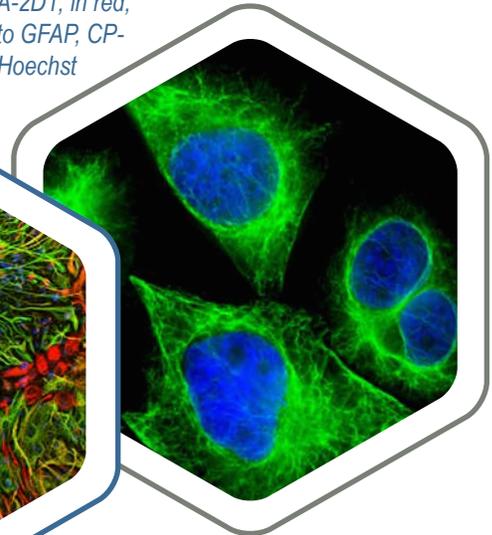
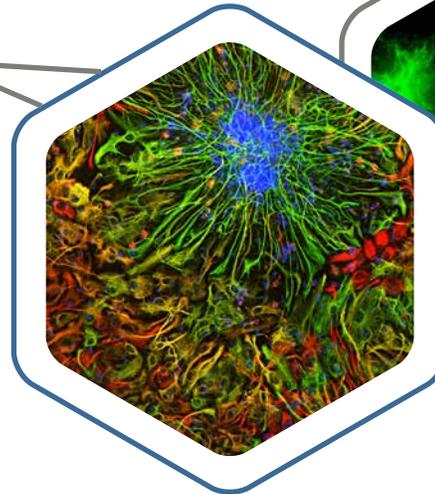
Vimentin



HeLa cell culture stained with rabbit pAb to vimentin, RPCA-Vim, in red, and costained with mouse mAb to actin, MCA-5J11, in green. The blue is Hoechst staining of nuclear DNA.

Rat cortical neuron-glia cell culture stained with mouse mAb to vimentin, MCA-2D1, in red, and costained with chicken pAb to GFAP, CPCA-GFAP, in green. The blue is Hoechst staining of nuclear DNA.

HeLa cell culture stained with chicken pAb to vimentin CPCA-Vim, in green. The blue is Hoechst staining of nuclear DNA.



Goat pAb to Vimentin

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VIM	AB_2737582	Full-length human recombinant protein	IgG	50kDa	WB: 1:5,000, IF/ICC & IHC: 1:2,000	Hu, Rt, Ms, Do, Ho

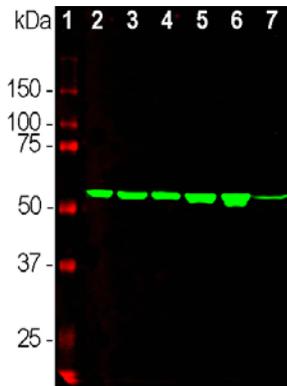
Cat# GPCA-Vim

Western blot analysis of different cell lysates using goat pAb to vimentin, GPCA-Vim, dilution 1:5,000 in green. [1] protein standard, [2] HeLa, [3] HEK293, [4] NIH-3T3, and [5] C6 cell lysates. CPCA-Vim binds to the vimentin protein showing a single band at ~50kDa mark.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

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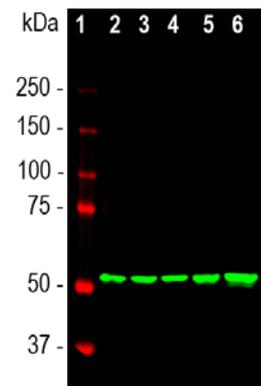
Mouse mAb to Vimentin

Cat# MCA-2A52

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VIM	AB_2572396	Full-length human recombinant protein	IgG1	50kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Mo, Ho, Do

Western blot analysis of cell and whole brain tissue lysates using mouse mAb to vimentin, MCA-2A52, dilution 1:5,000 in green: [1] protein standard (red), [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS-1, [6] C6, and [7] rat brain. The band at about 50kDa mark corresponds to vimentin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



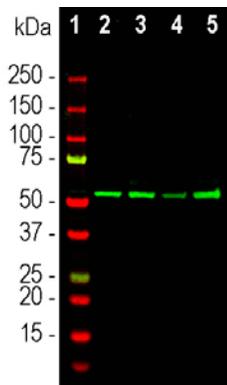
Mouse mAb to Vimentin

Cat# MCA-2D1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VIM	AB_2572397	Full-length human recombinant protein	IgG2a	50kDa	WB: 1:10,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Mo, Ho, Do

Western blot analysis of different cell lysates using mouse mAb to vimentin, MCA-2D1, dilution 1:10,000 in green: [1] protein standard (red), [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS-1, and [6] C6 cells. The band at about 50kDa mark corresponds to the vimentin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



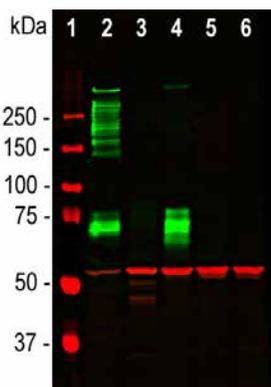
Rabbit pAb to Vimentin

Cat# RPCA-Vim

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VIM	AB_2572398	Full-length human recombinant protein	IgG	50kDa	WB: 1:5,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co, Pi, Ho

Western blot analysis of different cell lysates using rabbit pAb to vimentin, RPCA-Vim, dilution 1:5,000 in green. [1] protein standard, [2] HeLa, [3] HEK293, [4] NIH-3T3, and [5] C6 cell lysates. The band at about 50kDa mark corresponds to the vimentin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800



Chicken pAb to Vimentin

Cat# CPCA-Vim

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VIM	AB_2216401	Full-length human recombinant protein	IgY	50kDa	WB: 1:5,000 IF/ICC & IHC: 1:10,000	Hu, Rt, Ms, Co, Pi, Ho, Do, Ch, Mo

Western blot analysis of tissue and cell lysates using chicken pAb to vimentin, CPCA-Vim, dilution 1:5,000 in red. [1] protein standard (red), [2] rat whole brain lysate, [3] HeLa, [4] SH-SY5Y, [5] HEK293, and [6] NIH-3T3 cell lysates. Strong band at ~50kDa corresponds to vimentin protein.

Amount	Price
50µL	\$120
100µL	\$200
500µL	\$800

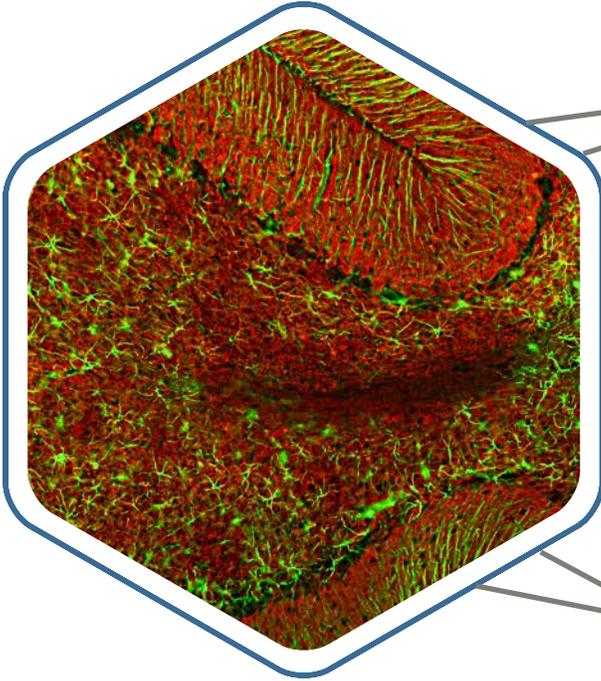
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Rat cerebellum section stained with mouse mAb to VLP1, MCA-2D11, in red, and costained with rabbit pAb to GFAP, RPCA-GFAP, in green.

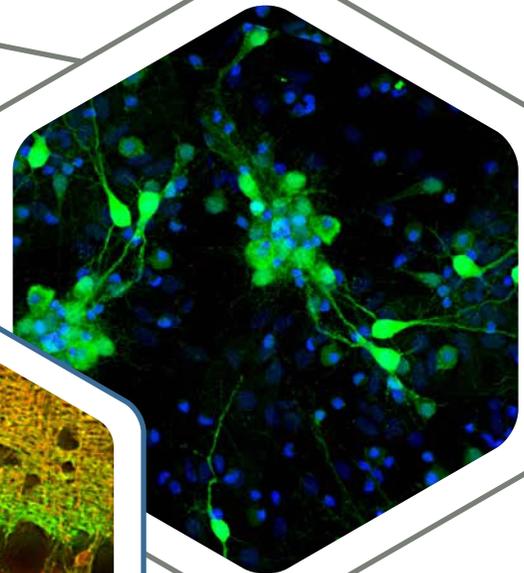


VLP1

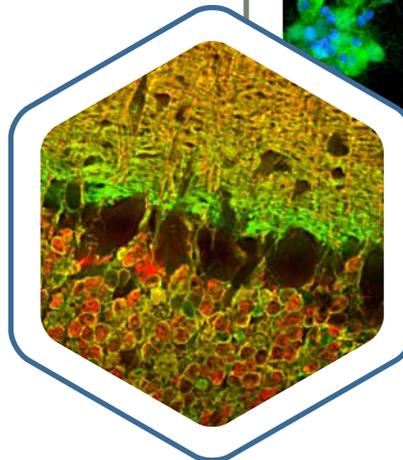
Vinsin-Like Protein 1

Visinin-like protein 1 (VLP1) is a small Calcium binding protein which is very abundant in the nervous system, and is found only in neurons, though different neurons have different levels of expression. VLP1 is strongly expressed in granule cells of the cerebellum, mostly concentrated in the perikarya and dendrites. It is a small 191 amino acids protein with molecular weight on SDS-PAGE of 18kDa. The protein has been suggested to be a useful biomarker of Alzheimer's disease and traumatic brain injury. Our VLP1 antibodies can be used to identify neurons and their processes in cell culture and in tissue sections, as well as to detect level of this protein by western blot.

Rat cortical neuron-glia cell culture stained with chicken pAb to VLP1, CPCA-VLP1, in green. The blue is Hoechst staining of nuclear DNA.



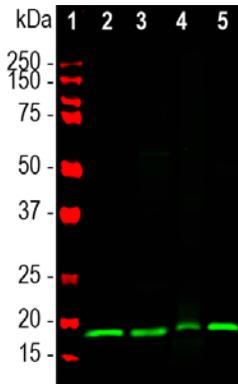
Rat cerebellum section stained with rabbit pAb to VLP1, RPCA-VLP1, in green, and costained with mouse mAb to calretinin, MCA-6A9, in red.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



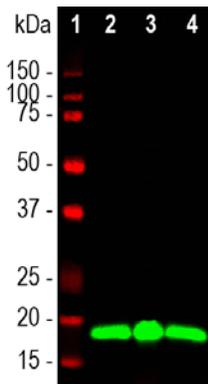
Mouse mAb to VLP1

Cat# MCA-3A9

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VSNL1	AB_2572400	Full-length human recombinant protein	IgG1	18kDa	WB: 1:1,000 IF/IHC: 1:500	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using mouse mAb to visinin-like protein 1 (VLP1), MCA-3A9, dilution 1:1,000, in green: [1] protein standard (red), [2] rat brain, [3] mouse brain, [4] pig hippocampus and [5] cow cerebellum. The band at 18kDa corresponds to the VLP1 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



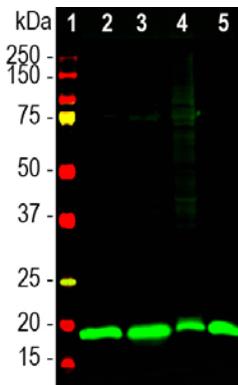
Mouse mAb to VLP1

Cat# MCA-2D11

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VSNL1	AB_2572399	Full-length human recombinant protein	IgG1	18kDa	WB: 1:500 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using mouse mAb to visinin-like Protein 1 (VLP1), MCA-2D11, dilution 1:1,000 in green: [1] protein standard (red), [2] rat brain [3] rat cerebellum and [4] mouse brain. The band at 18kDa mark corresponds to VLP1 protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	



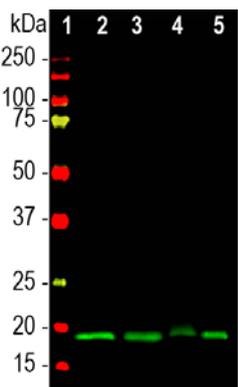
Rabbit pAb to VLP1

Cat# RPCA-VLP1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VSNL1	AB_2572402	Full-length human recombinant VLP1 protein	IgG	18kDa	WB: 1:10,000 IF/IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of different tissue lysates using rabbit pAb to visinin-like Protein 1 (VLP1), RPCA-VLP1, dilution 1:20,000 in green: [1] protein standard (red), [2] rat brain [3] mouse brain, [4] pig hippocampus and [5] cow cerebellum. The band at 18kDa corresponds to the VLP1 protein.

Affinity Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50µL	\$150
100µL	\$250	
500µL	\$1,000	



Chicken pAb to VLP1

Cat# CPCA-VLP1

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
VSNL1	AB_2572401	Full-length human recombinant VLP1 protein	IgY	18kDa	WB: 1:5,000 IF/IHC: 1:2,000	Hu, Rt, Ms

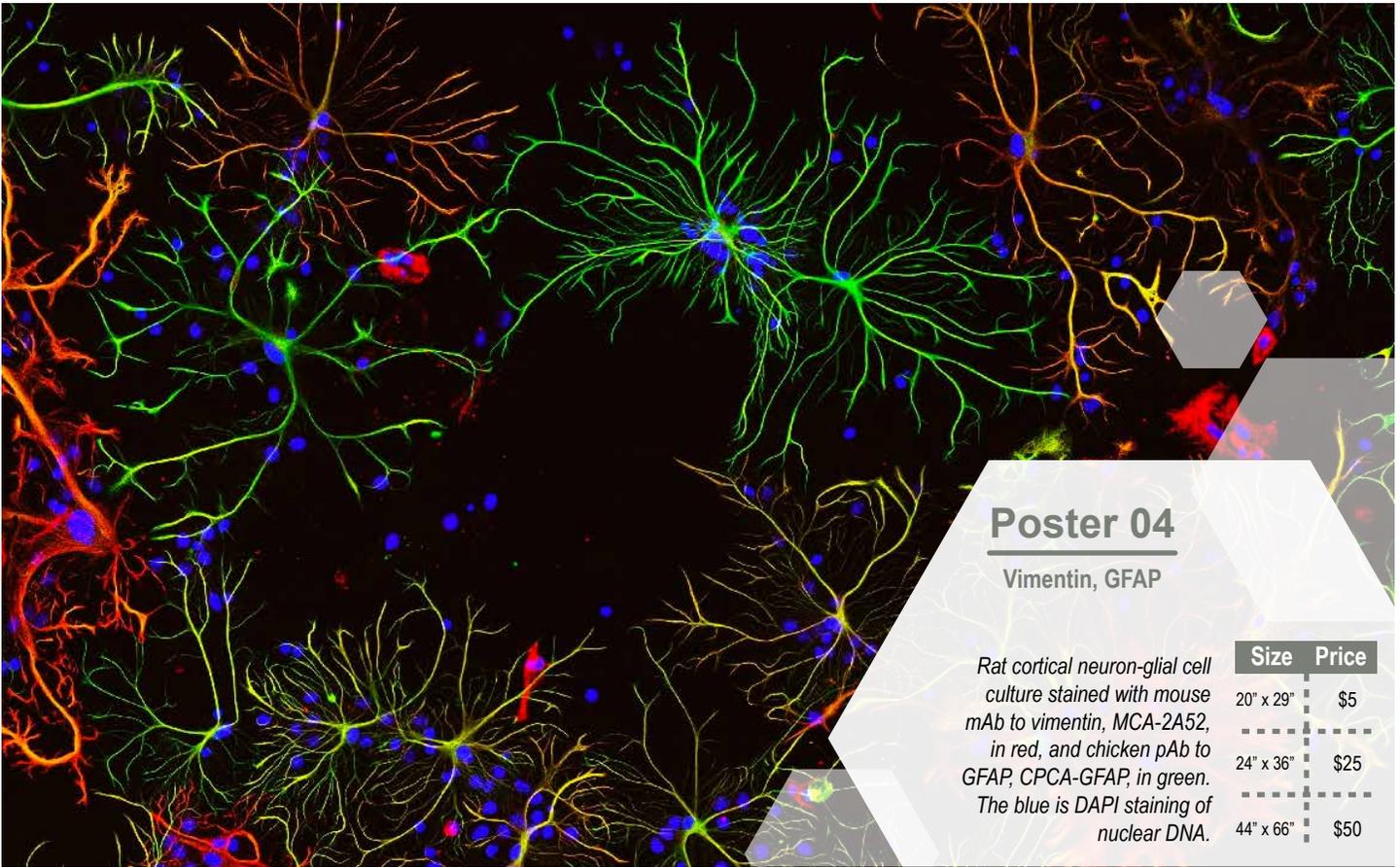
Western blot analysis of different tissue lysates using chicken pAb to visinin-like protein 1 (VLP1), CPCA-VLP1, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] mouse brain, [4] pig hippocampus and [5] cow cerebellum. The band at 18kDa corresponds to VLP1 protein.

Concentrated IgY preparation in PBS, 5mM NaN3	Amount	Price
	50µL	\$120
100µL	\$200	
500µL	\$800	

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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

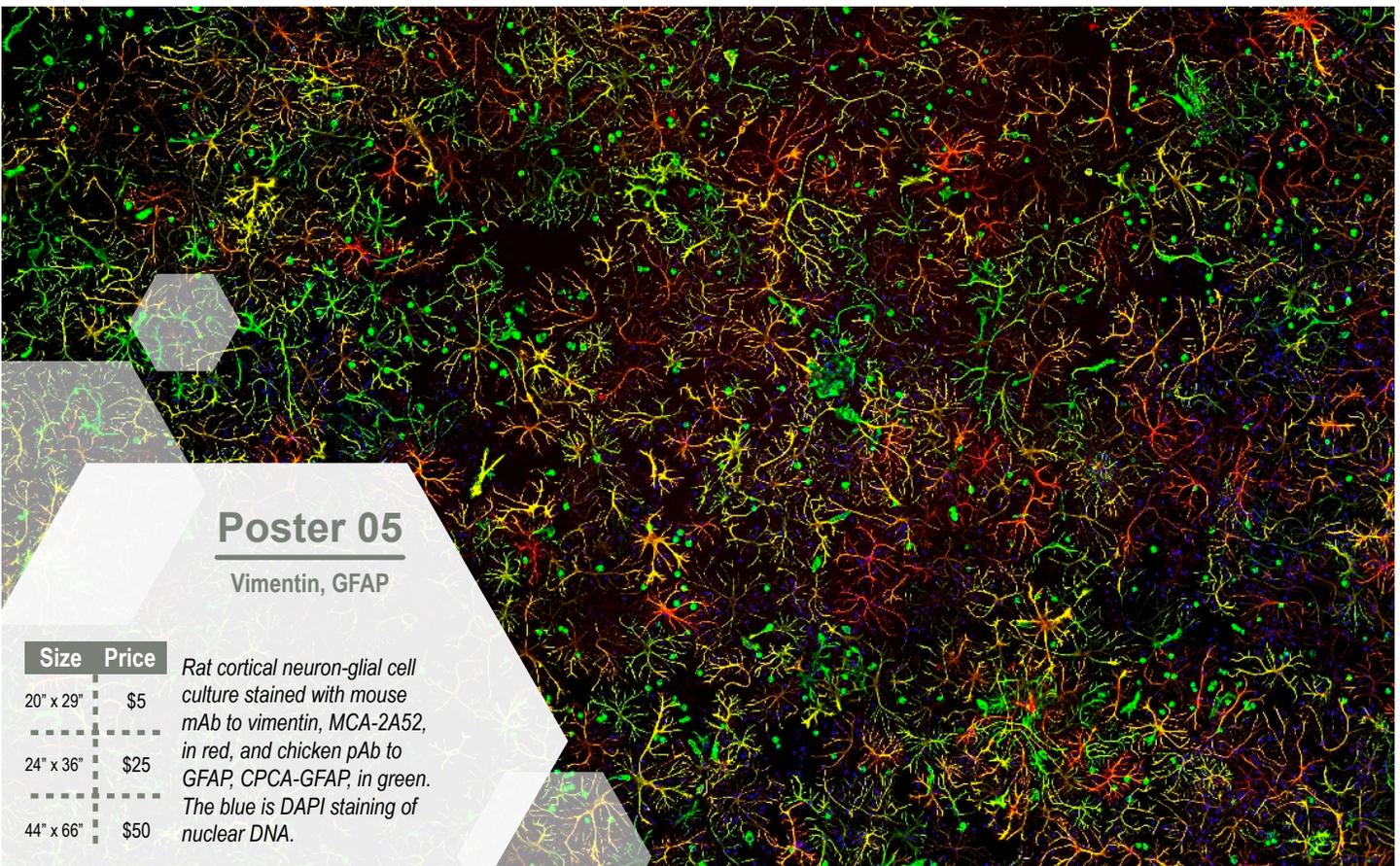


Poster 04

Vimentin, GFAP

Rat cortical neuron-glia cell culture stained with mouse mAb to vimentin, MCA-2A52, in red, and chicken pAb to GFAP, CPCA-GFAP, in green. The blue is DAPI staining of nuclear DNA.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50



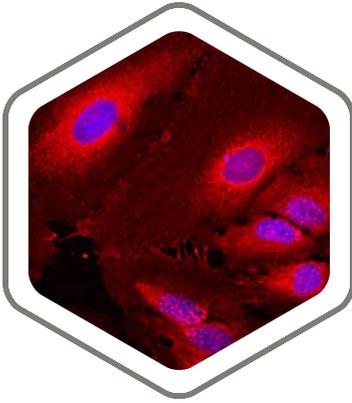
Poster 05

Vimentin, GFAP

Rat cortical neuron-glia cell culture stained with mouse mAb to vimentin, MCA-2A52, in red, and chicken pAb to GFAP, CPCA-GFAP, in green. The blue is DAPI staining of nuclear DNA.

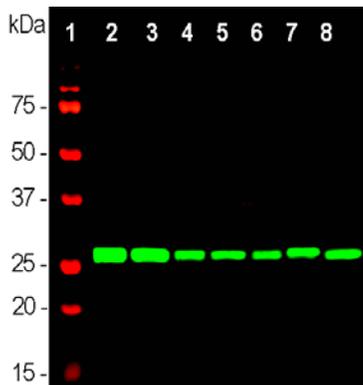
Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50

14-3-3 η



HeLa cells stained with mouse mAb to 14-3-3 η , MCA-3G12, dilution 1:1,000 in red. Blue is Hoechst staining of nuclear DNA.

The 14.3.3 family of proteins of 28-33 kDa proteins are major cytoplasmic proteins. They act as binding partners for phosphoserine and phosphothreonine sites in other proteins. There are 7 mammalian 14-3-3 proteins, and they are normally expressed as homo-, or in some cases, hetero-dimers. One of these, 14-3-3 η is widely expressed but concentrated in the nervous system. The 14-3-3 η protein accumulates in the cerebrospinal fluid of patients with Creutzfeldt-Jacob Disease, binds α -synuclein in the Lewy bodies of Parkinson's disease-affected brains, and has been linked to early-onset schizophrenia. Antibody to 14-3-3 η therefore can be used for the research of this disease.



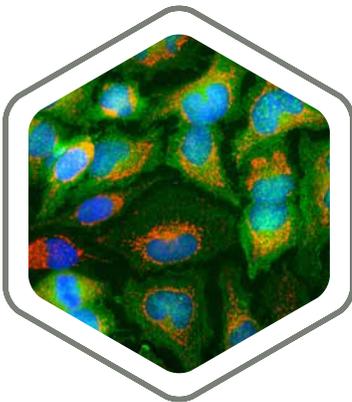
Mouse mAb to 14-3-3 η

Cat# MCA-3G12

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
YWHAH	AB_2572217	Full-length human recombinant protein	IgG1	28kDa	WB: 1:5,000 IF/ICC: 1:1,000	Hu, Rt, Ms, Co, Mo, Ho, Do, Pi

Western blot analysis of whole brain lysates (lanes 2,3), and cell lysates (lanes 4-8), using mouse mAb to 14-3-3 η , MCA-3G12, dilution 1:5,000 in green: [1] protein standard (red), [2] rat brain, [3] mouse brain, [4] NIH-3T3, [5] HEK293, [6] HeLa, [7] SH-SY5Y, [8] C6 cells. Strong band at 28kDa corresponds to 14-3-3 η protein.

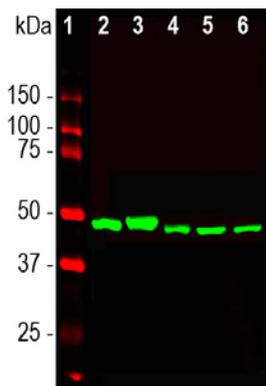
	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800



HeLa cell culture stained with mouse mAb to α -enolase, MCA-253, in green, and costained with chicken pAb to HSP60, CPCA-HSP60, in red. The blue is Hoechst staining of nuclear DNA.

α -Enolase

Enolases are enzymes that catalyze the conversion of 2-phosphoglycerate to phosphoenolpyruvate in the glycolytic pathway, and also the reverse reaction in gluconeogenesis. There are three mammalian enolase proteins, each coded by a distinct gene. Non-neuronal enolase (NNE), a.k.a. enolase 1 and α -enolase, is ubiquitously expressed in adult human tissues, including liver, brain, kidney, and spleen. In the CNS it is predominantly localized in the cytoplasm of neurons, though an alternatively translated form is found in the nucleus. Abnormal expression of NNE is associated with tumor progression in some breast, head, and neck cancer. Antibody to NNE works well on western blots and for IF/ICC applications.



Mouse mAb to α -Enolase

Cat# MCA-253

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
ENO1	AB_2572307	N-terminal 12 amino acids of bovine enolase 1	IgG1	47kDa	WB: 1:5,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of different cell lysates using mouse mAb to α -enolase, MCA-253, dilution 1:10,000 in green: [1] protein standard (red), [2] NIH-3T3 I, [3] C6, [4] HEK293, [5] HeLa, and [6] SH-SY5Y cells. A strong single band at 47kDa corresponds to the α -enolase protein.

	Amount	Price
Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	50 μ L	\$120
	100 μ L	\$200
	500 μ L	\$800

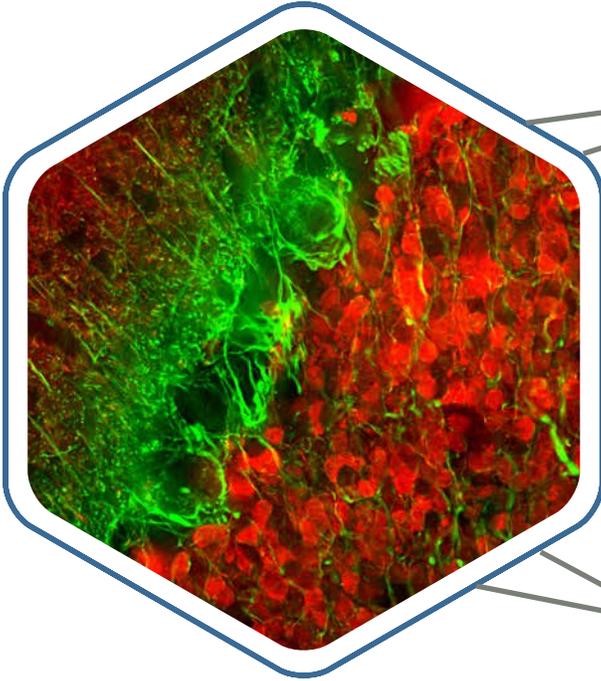
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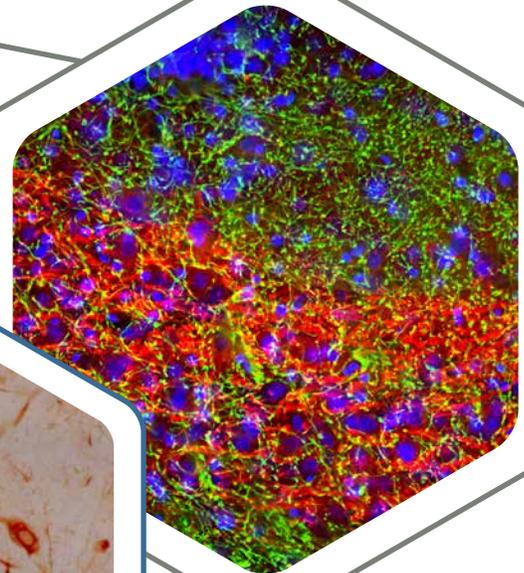
Rat cerebellum section stained with mouse mAb to α -internexin, MCA-1D2, in green, and costained with chicken pAb to calretinin, CPCA-Calret, in red.



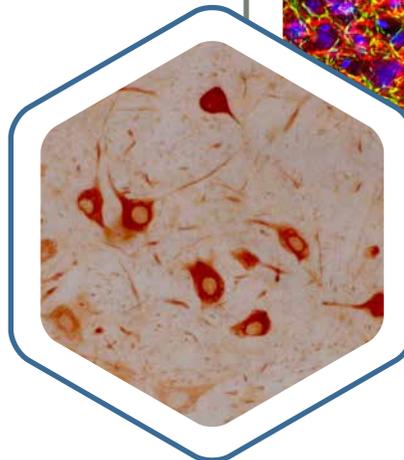
α -Internexin

Alpha-internexin is a ~66kDa type IV intermediate filament protein expressed in both the CNS and PNS neurons from early development. In adult cells, α -internexin is expressed abundantly in the processes and cytoplasm of neurons, often along with the neurofilament triplet proteins NF-L, NF-M and NF-H, although some neurons express only α -internexin. Cerebellar parallel fibers and large diameter projection axons are rich in α -internexin. This antibody can be used to identify and quantify levels of α -internexin in western blots and visualize α -internexin expressing cells in culture and sections.

Rat hippocampus section stained with chicken pAb to α -internexin, CPCA-a-Int, in red, and costained with mouse mAb to MBP, MCA-7G7, in green. The blue is Hoechst staining of nuclear DNA.



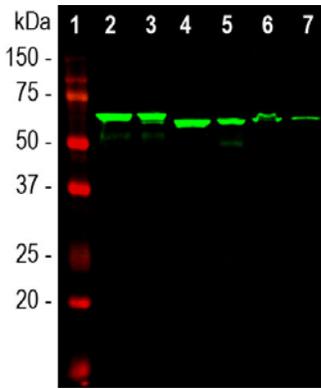
Formalin fixed paraffin embedded section of facial nucleus (7 days following axotomy), stained with mouse mAb to α -internexin, MCA-2E3, in brown.



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 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus



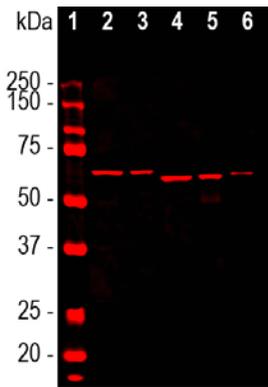
Mouse mAb to α -Internexin

Cat# MCA-1D2

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
INA	AB_2572334	Full-length rat α -internexin recombinant protein	IgG1	64-66kDa	WB: 1:10,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co, Pi

Western blot analysis of different tissue lysates using mouse mAb to α -internexin, MCA-1D2, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] pig spinal cord and [7] cow spinal cord. MCA-1D2 antibody reveals the α -internexin protein with apparent molecular weight of 64-66kDa.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50 μ L	\$120
100 μ L	\$200	
500 μ L	\$800	



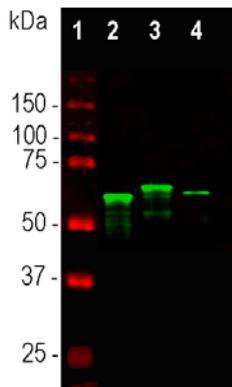
Mouse mAb to α -Internexin

Cat# MCA-2E3

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
INA	AB_2572335	Full-length rat α -internexin recombinant protein	IgG1	64-66kDa	WB: 1:10,000 IF/ICC & IHC: 1:5,000	Hu, Rt, Ms, Co

Western blot analysis of different tissue lysates using mouse mAb to α -internexin, MCA-2E3, dilution 1:10,000 in red: [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord and [6] cow spinal cord lysate. The MCA-2E3 antibody reveals the α -internexin protein with an apparent molecular weight of 64-66kDa.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50 μ L	\$120
100 μ L	\$200	
500 μ L	\$800	



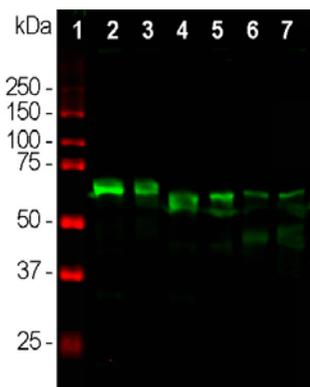
Rabbit pAb to α -Internexin

Cat# RPCA-a-Int

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
INA	AB_2572336	Purified recombinant rat α -internexin protein	IgG	64-66kDa	WB: 1:10,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co

Western blot analysis of whole tissue lysates using rabbit pAb to α -internexin, RPCA-a-Int, dilution 1:10,000 in green: [1] protein standard (red), [2] mouse spinal cord, [3] rat spinal cord, and [4] cow spinal cord. Major bands in the 64-66kDa range corresponds to α -internexin.

Serum + 5mM NaN3	Amount	Price
	50 μ L	\$120
100 μ L	\$200	
500 μ L	\$800	



Chicken pAb to α -Internexin

Cat# CPCA-a-Int

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
INA	AB_2127500	Full-length human recombinant α -internexin protein	IgY	64-66kDa	WB: 1:10,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, CO, Pi, Ho

Western blot analysis of different tissue lysates using chicken pAb to α -internexin, CPCA-a-Int, dilution 1:10,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] cow spinal cord and [7] pig spinal cord. CPCA-a-Int antibody reveals the α -internexin protein with apparent molecular weight of 64-66kDa.

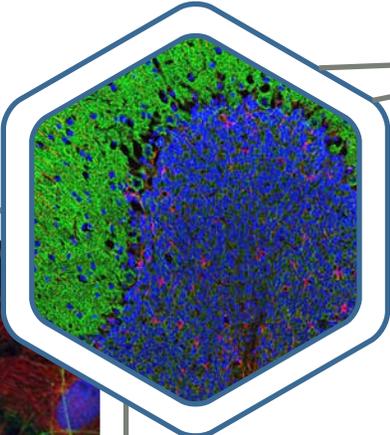
Concentrated IgY preparation in PBS, 5mM NaN3	Amount	Price
	50 μ L	\$120
100 μ L	\$200	
500 μ L	\$800	

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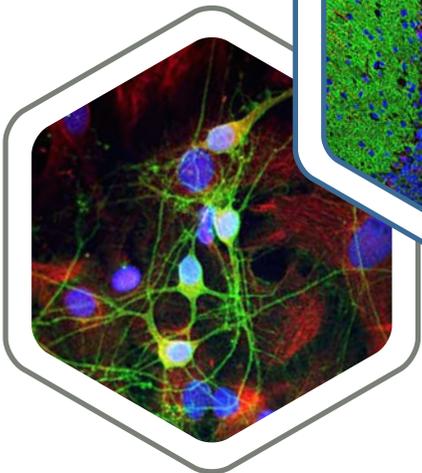
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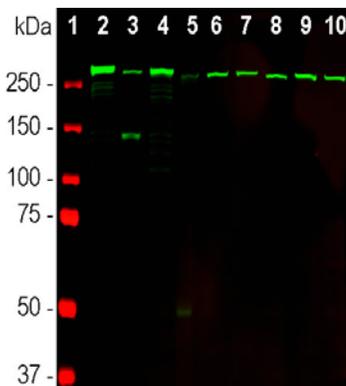
Spectrin family molecules are important high molecular weight components of the submembranous cytoskeleton of eukaryotic cells. Spectrin family molecules are mostly composed of spectrin repeats, compact ~110 amino acid modules made of three closely packed α -helices, though they may also include SH3 domains, PH domains, EF hands and other important binding sites. They function as major components of the membranous cytoskeleton, mediating interactions between integral membrane proteins, actin and many other cellular components. Our current antibodies binds specifically to α II-spectrin, also known as non-erythroid spectrin or fodrin, which is expressed only in neurons and so can be used to reveal the submembranous neuronal cytoskeleton in IF, ICC and IHC.



Rat cerebellum section stained with mouse mAb to α II-spectrin, MCA-3D7, in green, and costained with chicken pAb to GFAP, CPCA-GFAP, in red. The blue is Hoechst staining of nuclear DNA.



Rat cortical neuron-glia cell culture stained with rabbit pAb to α II-spectrin, in green, and costained with chicken pAb to vimentin, CPCA-Vim, in red. The blue is Hoechst staining of nuclear DNA.



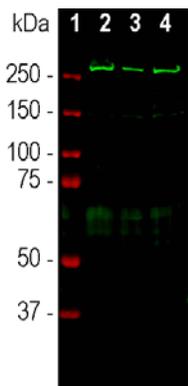
Mouse mAb to α II-Spectrin

Cat# MCA-3D7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SPTAN1	AB_2572381	AA: 2086-2447 of human recombinant α II-spectrin protein	IgG1	240kDa	WB: 1:3,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms

Western blot analysis of neural tissue and cell lysates using mouse mAb to α II-spectrin, MCA-3D7, in green. [1] protein standard, [2] rat whole brain, [3] rat spinal cord, [4] mouse whole brain, [5] mouse spinal cord, [6] NIH-3T3, [7] HEK293, [8] HeLa, [9] SH-SY5Y, [10] C6 glioma cells. A prominent band above 250kDa represents the intact α II-spectrin protein.

Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3	Amount	Price
	50 μ L	\$120
100 μ L	\$200	
500 μ L	\$800	



Rabbit pAb to α II-Spectrin

Cat# RPCA- α II-Spec

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SPTAN1	AB_2572382	AA: 676-2,447 of human recombinant α II-spectrin protein	IgG	240kDa	WB: 1:2,000 IF/ICC & IHC: 1:500	Hu, Rt, Ms, Co

Western blot analysis of different tissue lysates using rabbit pAb to α II-spectrin, RPCA- α II-Spec, in green. [1] protein standard, [2] rat whole brain, [3] mouse spinal cord, and [4] cow cortical section. Strong bands above 250 kDa represent the α II-spectrin protein.

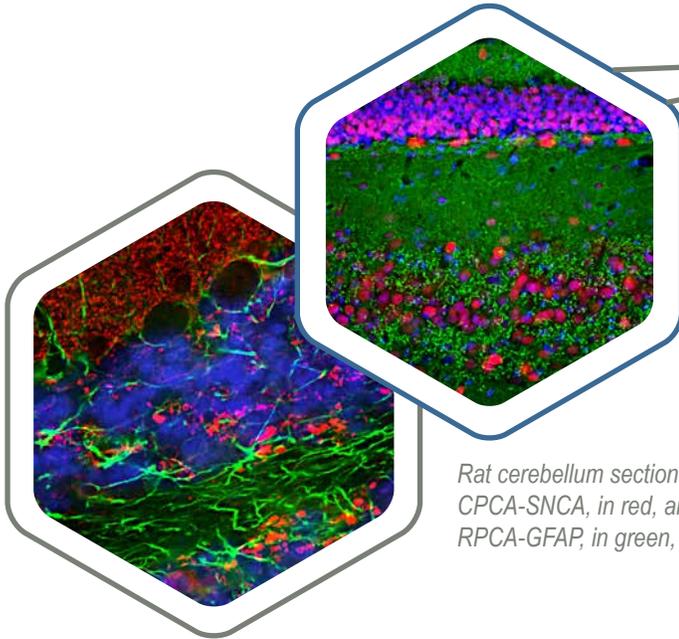
Serum + 5mM NaN3	Amount	Price
	50 μ L	\$120
100 μ L	\$200	
500 μ L	\$800	

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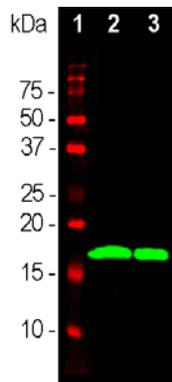
The α -synuclein protein was originally discovered in the electric organ of the *Torpedo* fish. Direct homologues of α -synuclein are found in all vertebrates. It is extremely abundant in the CNS with expression concentrated in presynaptic regions. Overexpression, accumulation or mutation of α -synuclein protein is linked to number of human brain pathologies and neurodegenerative age-related disorders. α -synuclein amyloid fibrils are the major component of Lewy bodies, which are the pathological hallmark of Parkinson's disease and other synucleinopathies, including diffuse Lewy body diseases, multiple system atrophy, and amyotrophic lateral sclerosis. The α -synuclein antibodies are useful for analyzing synapses and pathological inclusions in rodent and human tissues.

α -Synuclein



Rat hippocampus section stained with mouse mAb to α -synuclein, MCA-2A7, in green, and costained with chicken pAb to MeCP2, CPCA-MeCP2, in red. The blue is Hoechst staining of nuclear DNA.

Rat cerebellum section stained with chicken pAb to α -synuclein, CPCA-SNCA, in red, and costained with rabbit pAb to GFAP, RPCA-GFAP, in green, The blue is Hoechst staining of nuclear DNA.



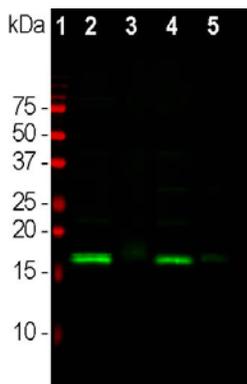
Mouse mAb to α -Synuclein

Cat# MCA-2A7

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SNCA	AB_2572383	Full-length human recombinant protein	IgG1	14kDa	WB: 1:1,000 IF/ICC & IHC: 1:2,000	Hu, Rt, Ms

Western blot analysis of tissue lysates using mAb to α -synuclein MCA-2A7. dilution 1:1,000 in green. Lane [1] protein standard in red, [2] whole rat brain lysate, [3] rat spinal cord lysate. Strong band at about 15kDa corresponds to α -synuclein protein.

Amount	Price
50 μ L	\$120
100 μ L	\$200
500 μ L	\$800



Chicken pAb to α -Synuclein

Cat# CPCA-SNCA

HGNC	RRID	Immunogen	Isotype	Molecular Wt.	Application	Cross-Reactivity
SNCA	AB_2572385	Human protein with the epitope from amino acids 61-95	IgY	14kDa	WB: 1:2,000 IF/ICC & IHC: 1:1,000	Hu, Rt, Ms, Co, Pi, Ho

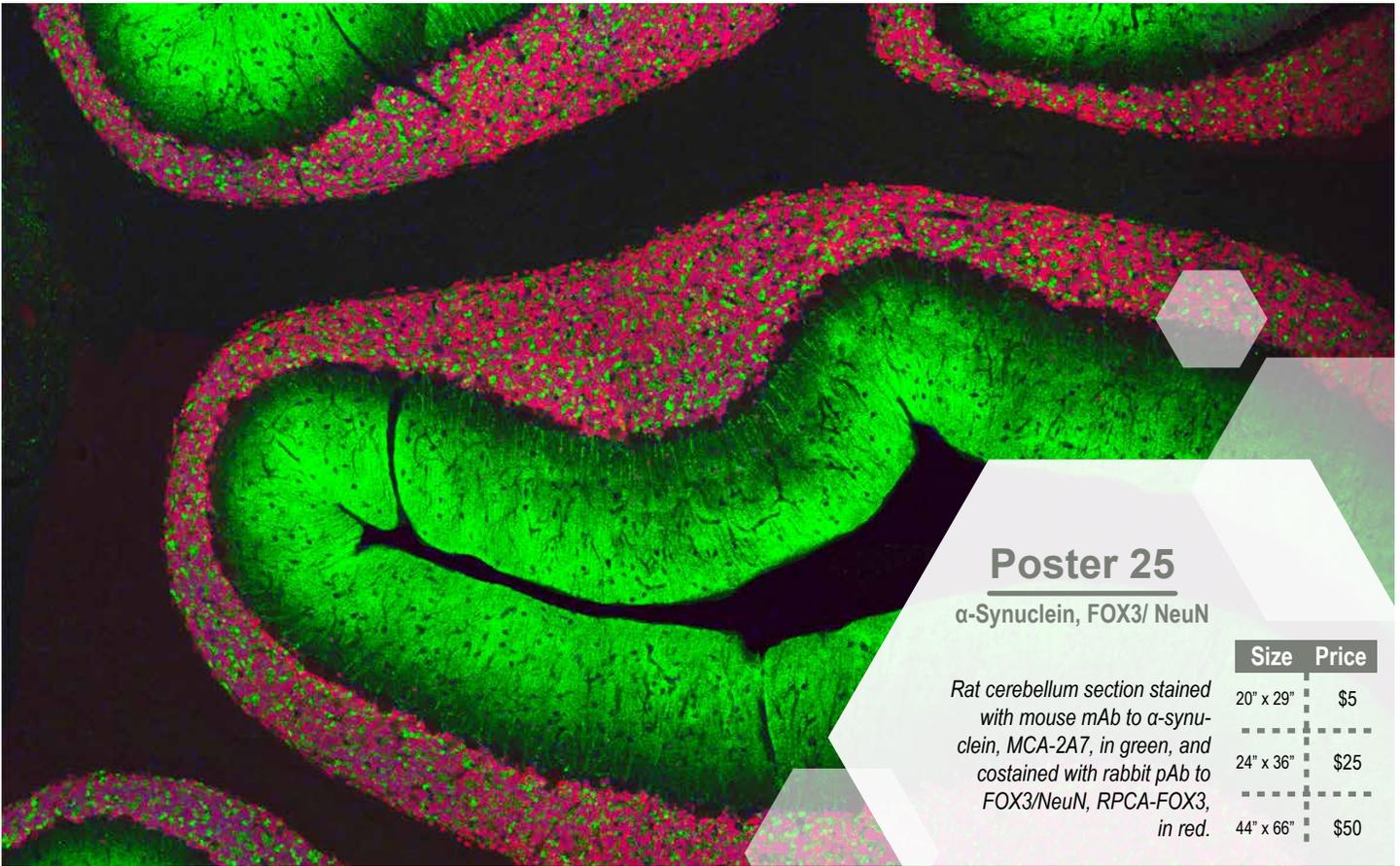
Western blot analysis of different tissue lysates using chicken pAb to α -synuclein, CPCA-SNCA, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. The strong band at about 15kDa corresponds to the α -synuclein protein.

Amount	Price
50 μ L	\$150
100 μ L	\$250
500 μ L	\$1,000

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Poster 25

α -Synuclein, FOX3/ NeuN

Rat cerebellum section stained with mouse mAb to α -synuclein, MCA-2A7, in green, and costained with rabbit pAb to FOX3/NeuN, RPCA-FOX3, in red.

Size	Price
20" x 29"	\$5
24" x 36"	\$25
44" x 66"	\$50



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 γ-Synuclein
 β-Synuclein

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CNP
 FOX3/NeuN
 Ki67 (Human Specific)

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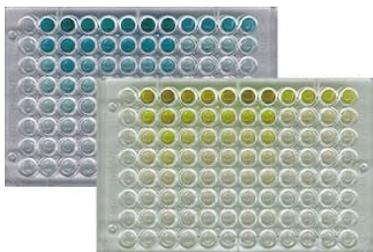
ELISA

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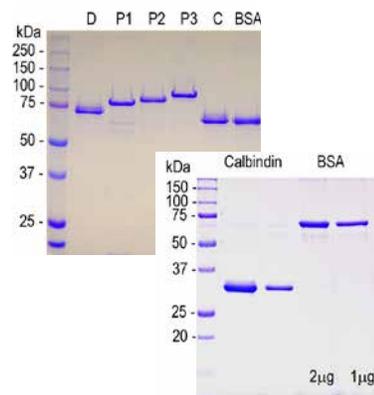


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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow
 Pi—Pig Ho—Horse Ch—Chicken Dm—D. melanogaster Sc—S. cerevisiae Sa—S. aureus

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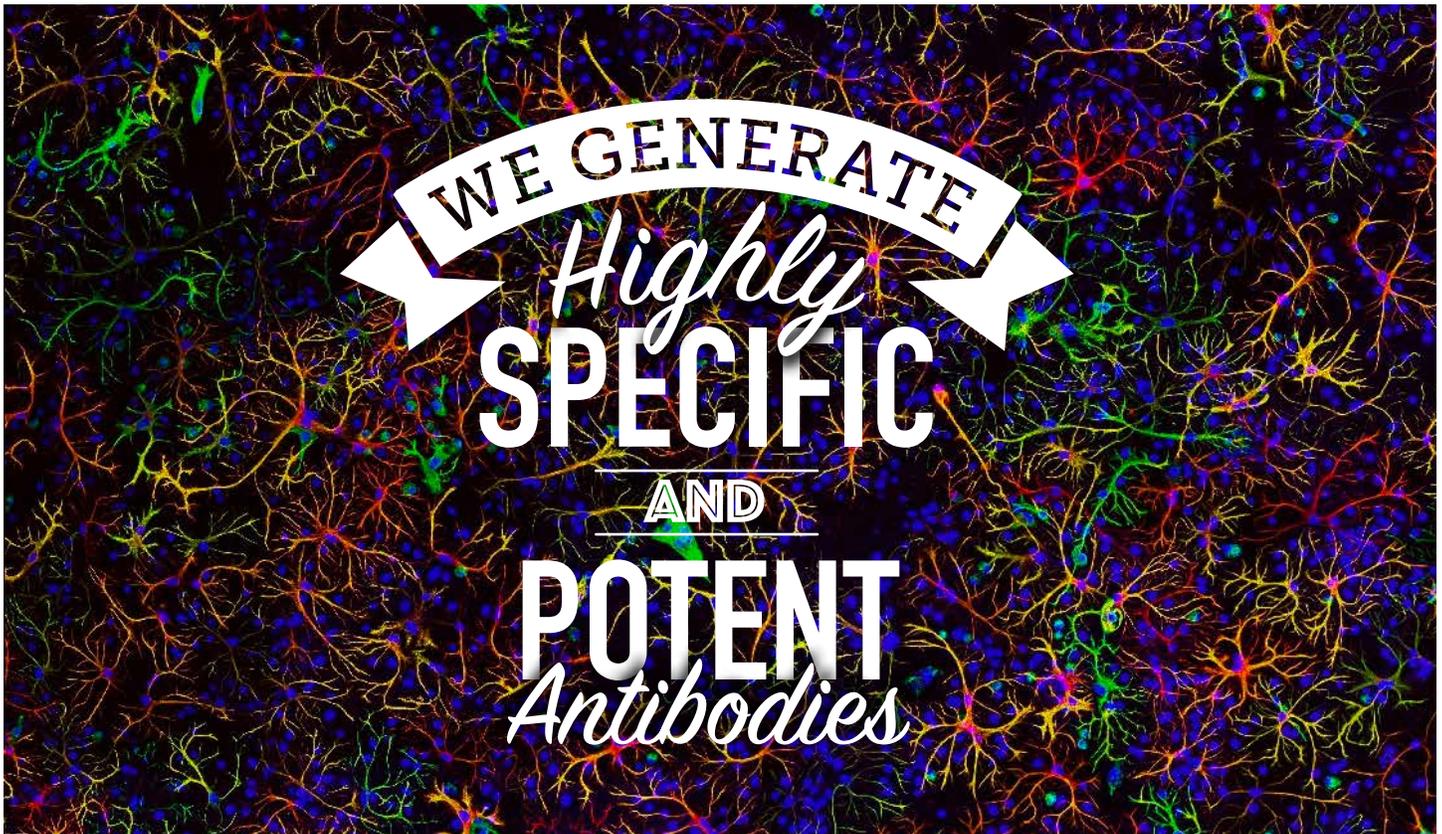
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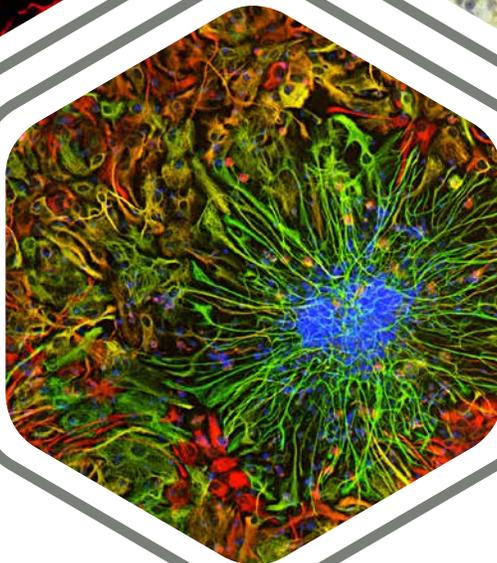
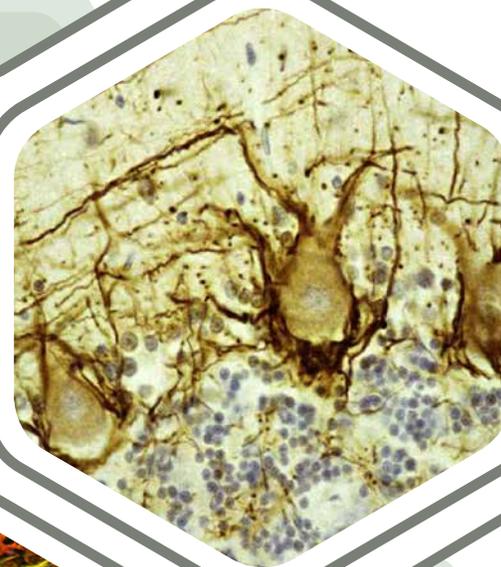
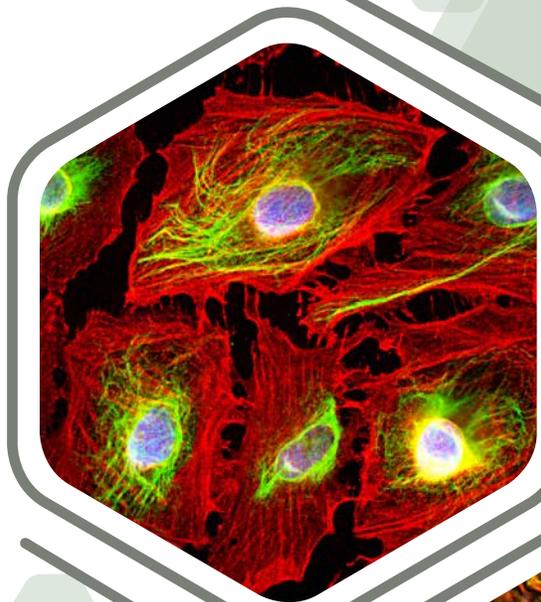
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