

Antibodies that Work™

PAN- AND PHOSPHO-SPECIFIC ANTIBODIES

NEUROSCIENCE RESEARCH

Catecholamine Signaling

GABA and Glutamate Receptors

Scaffolding and Synaptic Vesicle Proteins

Signal Transduction Enzymes

CANCER RESEARCH

Map Kinase Cascades

Cell Cycle and Growth Control



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ANTIBODES THAT WORK™

It is more than just our motto; antibodies that work are our ONLY focus. Not only do we have the know-how to produce antibodies that work, we walk the walk.

What Makes Us Different?

- If we attempt to make an antibody and it doesn't work, we throw it away. We never sell an antibody that we can't get to work in our hands.
- We guarantee our antibodies. If you can't get the antibody to work in your application, we will provide a 100% refund.

All antibodies are affinity purified unless otherwise denoted as 'Unpurified' (*UP*) in the product list on the following pages.

We are dedicated to reproducibility. Look for our "Pooled Serum" icon.

Each antibody with this icon is purified from its own pool of serum to ensure lot-to-lot consistency.

POOLED SERUM IS THE KEY!

It's no secret that reproducibility is a huge issue in scientific research. An antibody may work great initially, but when the "same" antibody is reordered, it shows completely different results. This variability happens because many companies purify different lots from different bleeds of an animal or even from entirely different animals altogether.

There is a very straightforward fix to this problem. Our solution is to pool all of the positively screened serum before the antibody is ever released. Therefore, all antibody lots sold subsequently are virtually identical, as they have all been purified from aliquots of the same, pooled starting material. With this practice, virtually all lot-to-lot variability is eliminated for polyclonal antibodies. Once the pool of serum has been depleted, then that catalog number is discontinued and new rabbits are immunized and screened for future release.

Is this a lot of extra care to put into antibody production? Of course! Is it worth it? Absolutely! We are passionate about antibodies that work and feel that you deserve research tools that you can count on, time and time again.



FOUR GREAT BRANDS. ONE GREAT TEAM

PhosphoSolutions has joined forces with two leaders in the neuroscience field, Antibodies Incorporated and Aves Labs. This partnership enables us to offer nearly 1,000 internally produced and validated antibodies in multiple species for ready multiplexing and provide a full suite of custom antibody services to help advance your neuroscience research.



Founded in 1962, Antibodies Inc. boasts a catalog of 500 mouse monoclonal antibodies against critical neuroscience targets, including the entire NeuroMab portfolio, many of which have been knockout validated in mouse brain.

Aves Labs is well known for its highly-cited chicken antibodies which are focused on neuroscience targets. The company has pioneered novel algorithms for finding highly-immunogenic sequences within proteins and is the world's leading provider of custom chicken antibodies.

ImmunoChemistry Technologies is your partner in cell viability assays, ELISA reagents, and immunoassay services. With decades of immunoassay and protein chemistry expertise, ICT offers a wide range of products for immunoassay, cellular, and molecular diagnostics development including fluorescent whole cell viability assays for intracellular apoptosis detection and kits to detect intracellular caspase activity, oxidative stress and much more!





CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
1433-P	14-3-3 Protein A	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate, Xenopus, Zebrafish	WB
p1433-58	14-3-3 (Ser58) A	Human, Rat, Bovine, Canine, Chicken, Mouse, Non-Human Primate, Sheep, Xenopus, Zebrafish	WB, IHC
p175-523	5-Lipoxygenase (Ser523) ▲	Human, Rat, Non-Human Primates	WB
85-AC3*	Adenylate Cyclase III	Human, Mouse, Rat	WB, IHC
91-AIF1	AIF1/lba1	Human, Human	WB, ICC
98-A2SM*	Alpha II Spectrin	Bovine, Human, Mouse, Rat	WB, IHC
99-A2SR*	Alpha II Spectrin (UP)	Human, Mouse, Rat	WB, IHC
127-ACTN4	Alpha Actinin 4	Human, Mouse	WB, IHC
100-AIN	Alpha Internexin/NF-66, ms	Human, Mouse, Rat, Most Mammals	WB, IF, IHC
101-AIN*	Alpha Internexin/NF-66, ck (UP)	Mouse, Human, Rat, Most Mammals	WB, IF
115-ABCA4	ABCA4 (Rim Protein)	Bovine, Human, Mouse, Xenopus	WB, IHC
125-ACT*	Actin (UP)	All Species to Date	WB, IF, IHC
p104-342	AKT (Thr342) ▲	Drosophila	WB
108-ASYN*	Alpha Synuclein	Human, Mouse, Rat, Cow, Pig, Most Mammals	WB, IF
p1571-129	Alpha Synuclein (Ser129) ▲	Human, Mouse, Rat, Bovine, Canine, Non-Human Primate	WB, IHC
144-APP	Amyloid Precursor Protein	Mouse, Rat, Canine, Chicken, Human, Non-Human Primate	WB
p111-94	Androgen Receptor (Ser94)	Human, Non-Human Primate	WB
p112-261	Aquaporin 2 (Ser261) 🚣	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primate	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
p112-264	Aquaporin 2 (Ser264) 🚣	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate	WB, IHC
p112-269	Aquaporin 2 (Ser269) 🚣	Rat, Bovine, Canine, Mouse	WB, IHC
134-AQP4	Aquaporin 4 🗸	Human, Mouse, Rat	WB
146-ARG1	Arginase I (ARG1)	Guinea Pig, Human, Mouse, Rat	WB, IHC
p115-4908	ATF2 (Ser490,498) [▲]	Human, Rat	WB, IHC
p115-52	ATF2 (Thr52) 🚣	Human	WB
p116-239	ATRIP (Ser239) ▲	Mouse, Bovine, Human, Non-Human Primate, Sheep	WB
p117-234	Beclin1 (Ser234) ▲	Human, Bovine, Canine, Mouse, Non-Human Primate	WB
p117-295	Beclin1 (Ser295) ▲	Human, Bovine, Canine, Chicken, Mouse, Non-Human Primate, Sheep, Xenopus, Zebrafish	WB
p120-3337	Beta Catenin (Ser33,37) ▲	Human, Mouse, Rat, Xenopus	WB
302-CALB*	Calbindin	Bovine, Human, Mouse, Rat	WB, IF, IHC
303-CAL*	Calretinin	Rat, Human, Mouse, Non-Human Primates	WB, IF, IHC
p1005-286	CaM Kinase II (Thr286) ▲	Human, Xenopus	WB
p1005-306	CaM Kinase II (Thr306) ▲	Mouse, Rat, Bovine, Chicken, Canine, Human, Xenopus, Zebra Fish, Rat, Sheep	WB
304-cas9*	CRISPR Cas9	Staphylococcus Aureus	WB, IF, IHC
305-CaSR	CaSR (Calcium Sensing Receptor)	Human, Mouse, Rat	WB
307-CD71	CD71	Human	WB, IHC
312-CD75	CD75	Human	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
p135-15	cdc2 (Tyr15) 🚣	Human, Xenopus, Mouse, Rat, Zebrafish	WB
308-CDK5	CDK5	Human, Mouse, Rat	WB, IHC
309-cF0S*	c-FOS	Bovine, Human, Mouse, Rat	WB, IF, IHC
311-CGRP	Calcitonin Gene Related Peptide (CGRP)	Human, Rat, Most Mammals	ICC
315-ChAT*	ChAT (Choline Acetyltransferase), gt	Avian, Chicken, Guinea Pig, Human, Mouse, Non-Human Primates	WB, IHC
316-ChAT*	ChAT (Choline Acetyltransferase), rb (UP)	Mouse, Non-Human Primate, Rat	WB, IHC
p142-477	Che-1 (AATF) (Ser477) ▲	Human, Bovine, Canine, Mouse, Non-Human Primate, Rat, Sheep and Xenopus	WB
p145-153	CK1Mt (Tyr153) 🚣	Human, Mouse, Bovine, Canine, Guinea Pig, Hamster Non-Human Primate, Rat, Rabbit, Sheep	WB
317-CLAV	Clavesin	Rat, Human, Mouse	WB, ICC
319-COBRA	COBRA1 (Cofactor of BRCA1) (NELF-B)	Human, Mouse, Rat	WB
321-COLP*	Collagen I, α1, Propeptide	Human, Mouse, Rat, Most Mammals, Birds, Amphibians and Fishes	WB, IHC
322-COLT*	Collagen I, $lpha$ 1, Telopeptide	Human, Mouse, Rat, Sheep, Most Mammals, Birds and Amphibians	WB, IHC
325-CNP*	CNP (2,3-Cyclic Nuceleotide- 3-Phosphodiesterase) (UP)	Human, Mouse, Rabbit, Rat, Sheep	WB, IHC
pCx35-276	Connexin 35/36 (Ser276) ▲	Fish, Mouse, Rabbit	WB, IHC
327-CON	Connexin 43 🗸	Rat, Chicken, Canine, Finch, Human, Mouse, Non-Human Primate, Sheep, Xenopus, Zebrafish	WB
p1007-368	Connexin 43 (Ser368) [▲]	Mouse, Rat, Bovine, Canine, Chicken, Guinea Pig, Human, Zebrafish	WB
p1008-58	COXIV (Ser58) A	Mouse, Rat	WB
p1010-133	CREB (Ser133) 4	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate, Rat, Sheep, Xenopus, Zebrafish	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
p1012-326	CtIP (Ser326) 4	Human, Non-Human Primate	WB
p1012-327	CtIP (Ser327) ▲	Human, Non-Human Primate	WB
p1012-847	CtIP (Thr847) ▲	Human, Avian, Bovine, Canine, Chicken, Goat, Guinea Pig, Mouse, Non-Human Primate, Sheep	WB
374-DARPP	DARPP-32 🚣	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate, Xenopus	WB, IHC
p1025-34	DARPP-32 (Thr34) 🚣	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primate	WB
p1025-75	DARPP-32 (Thr75)	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate	WB
p1025-137	DARPP-32 (Ser137) ▲	Rat, Bovine, Canine, Human, Mouse, Non-Human Primates	WB
p1030-450	DENND3 (Thr450) 🚣	Human	WB
p1030-554	DENND3 (Ser554) A	Human, Mouse, Non-Human Primate, Rat, Sheep	WB
p1035-377	DGCR8 (Ser377) 🚣	Human, Mouse	WB
417-DDC	DOPA Decarboxylase, Bovine 4	Rat, Bovine	WB
418-DDCH	DOPA Decarboxylase, Human 4	Bovine, Canine, Guinea Pig, Human, Rabbit, Rat, Sheep	WB
420-DBHC	Dopamine β-Hydroxylase, C-Terminus, Human △	Human, Mouse, Non-Human Primates	WB
423-DBHN	Dopamine β-Hydroxylase, N-Terminus, Human △	Human and Non-Human Primate	WB
431-DATC	Dopamine Transporter, C-Terminus, Human A	Human, Mouse, Non-Human Primates	WB, IHC
434-DATEL2	Dopamine Transporter, Extracellular Loop 2, Human ▲	Human and Non-Human Primate	WB, IHC
p435-53	Dopamine Transporter (Thr53)	Rat	WB, IHC
451-DCX*	Doublecortin	Bovine, Human, Mouse, Rat	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED
465-DsbA-L	DsbA-L (Disulfide-bond-A oxidoreductase-like protein) (UP)	Mouse and Human	WB, IHC
480-DYN	Dynamin 4	Rat, Bovine, Chicken, Human, Mouse, Non-Human Primate	WB
p1050-774	Dynamin (Ser774) ▲	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate	WB, IF, IHC
p1050-778	Dynamin (Ser778) ▲	Rat, Bovine, Canine, Chicken, Human, Mouse	WB
495-elF4A2	elF4A2 🚣	Human, Mouse, Bovine, Non-Human Primate, Rat	WB
p153-358	eEF1A2 (Ser358) 4	Mouse, Chicken, Human, Non-Human Primate, Rat, Sheep and Xenopus	WB
p155-383	Elk-1 (Ser383) ▲	Mouse, Rat, Canine, Human, Non-Human Primate, Zebrafish	WB
p1110-298	EphrinB (Tyr298) ▲	Human, Rat, Bovine, Canine, Chicken, Mouse, Non-Human Primate, Xenopus, Zebrafish	WB
p1110-317	EphrinB (Tyr317) ▲	Mouse, Rat, Bovine, Chicken, Human, Xenopus, Zebrafish	WB
p1110-331	EphrinB (Tyr331) ▲	Mouse, Rat, Bovine, Chicken, Human, Mouse, Xenopus, Zebrafish	WB
500-ERK	ERK/MAPK A	Human, Mouse, Rat	WB
p160-2024	ERK/MAPK (Thr202/Tyr204) ▲	Human, Mouse, Rat, Bovine, Canine, Chicken, Non-Human Primates, Xenopus, Zebrafish	WB, IHC
540-EWS*	EWS	Human	WB, IF, IHC
p170-679	FAM129B (Ser679, 683) 4	Mouse, Human, Non-Human Primates	WB
p171-556	FANCI (Ser556) ▲	Human, Non-Human Primates	WB
p171-559	FANCI (Ser559) [△]	Human, Bovine, Non-Human Primates, Goat and Sheep	WB
560-FIB*	Fibrillarin	Human, Mouse, Rat	WB, IF
p1125-499	FMRP (Ser499) ▲	Mouse, Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primates, Sheep, Xenopus And Zebrafish	WB

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
581-F0X1*	F0X1	Bovine, Human, Mouse, Rat	WB, IHC
538-F0X3*	FOX3 (NeuN)	Bovine, Human, Mouse, Rat	WB, IHC
592-FRAC	Fractin (UP)	Human, Rat	WB, IHC
597-FT0	FTO (Fat mass and obesity-associated protein)	Human, Mouse, Rat, Bovine, Canine, Horse, Non-Human Primate, Sheep	WB, IF
811-GA1C	GABA _A Receptor α1	Mouse, Rat, Bovine, Canine, Human, Mouse, Non-Human Primate	WB
812-GA1N	GABA _A Receptor α1, N-Terminus	Mouse, Rat, Bovine, Canine, Human, Non-Human Primate	WB
822-GA2CL	GABA₄ Receptor α2 ♣	Mouse, Rat, Bovine, Canine, Human, Non-Human Primate, Zebrafish	WB
824-GA3N	GABAA Receptor $lpha$ 3, N-Terminus	Mouse, Rat, Bovine, Canine, Human, Non-Human Primate, Zebrafish	WB, IHC
845A-GA4C	GABA₄ Receptor α4 ♣	Mouse, Rat	WB
846A-GA5C	GABA₄ Receptor α5 ♣	Mouse, Rat, Bovine, Chicken, Canine, Human, Mouse, Non-Human Primate, Zebrafish	WB
850-GA6	GABA₄ Receptor α6 ♣	Mouse, Rat	WB
847-GA6C	GABAA Receptor α 6	Mouse, Rat	WB
860A-GB1C	GABA₄ Receptor β1 ▲	Mouse, Rat, Bovine, Chicken, Canine, Human, Mouse, Non-Human Primates, Xenopus, Zebrafish	WB
862-GB2C	GABAA Receptor ß2	Mouse, Rat, Canine, Human, Non-Human Primate	WB
863A-GB3C	GABAA Receptor 63 🗸	Mouse, Rat	WB
p1130-4089	GABA₄ Receptor ß3 (Ser408/409) ▲	Mouse, Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primates, Xenopus, Zebrafish	WB
868A-GDN	GABA _A Receptor δ, N-Terminus Δ	Mouse, Rat	WB, IHC, IP
830-GG2	GABA _A Receptor γ2 Δ	Rat, Chicken, Human, Mouse, Non-Human Primates, Zebrafish	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
832A-GG2C	GABAA Receptor γ2 🗸	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primate	WB
p1130-327	GABAA Receptor, γ2 Subunit, (Ser327) ▲	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primate	WB
p1148-783	GABA _B Receptor (Ser783), R2-Subunit [▲]	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primate	WB, IF
p1148-923	GABA _B Receptor (Ser923), R1-Subunit [△]	Mouse, Rat, Bovine, Human, Non-Human Primate	WB
880-GAT1	GABA Transporter (GAT) 1	Mouse, Rat	WB, IHC
881-GAT2	GABA Transporter (GAT) 2	Rat, Mouse	IHC
875-GAP43*	GAP43 <i>(UP)</i>	Human, Mouse, Rat	WB, IHC
p1150-41	Gap-43 (Ser41) ▲	Mouse, Rat, Bovine, Canine, Chicken, Finch, Human, Non-Human Primate, Xenopus, Zebrafish	WB
615-GEPH	Gephyrin	Human, Rat	WB
620-GFAP*	Glial Fibrillary Acidic Protein (GFAP), rb <i>(UP)</i>	Rat, Human, Mouse	WB, IF
621-GFAP*	Glial Fibrillary Acidic Protein (GFAP), ck <i>(UP)</i>	Rat, Human, Mouse	WB, IF
895-GluR1	GluR1-Subunit	Mouse, Rat	WB
p1160-831	GluR1-Subunit (Ser831) ▲	Mouse, Rat, Canine, Chicken, Human	WB
p1160-845	GluR1-Subunit (Ser845) ▲	Mouse, Rat, Human, Non-Human Primate	WB, IHC
900-GluR2	GluR2-Subunit ▲	Rat, Chicken, Human, Mouse, Non-Human Primate, Zebrafish	WB
905-GluR2/3	GluR2/3-Subunit ▲	Rat, Chicken, Human, Mouse, Zebrafish	WB
p1170-880	GluR2-subunit (Ser880)	Rat, Human, Mouse, Non-Human Primate, Zebrafish	WB
600-GAPDH	Glyceraldehyde 3-Phosphate Dehyrogenase	Human, Mouse, Rat, Avian, Bovine	WB, IF

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
700-GLY	Glycine Receptor ▲	Human, Mouse, Rat	WB, IHC
p1175-9	Glycogen synthase kinase 3 B (GSK3B) (Ser9) [▲]	Mouse, Rat, Human, Chicken, Bovine, Canine, Non-Human Primate, Zebrafish, Xenopus	WB
642-GRASP	GRASP ▲	Mouse, Rat, Bovine, Canine, Human	WB
p1180-394	HDAC2 (Ser394) [▲]	Mouse, Rat, Bovine, Chicken, Guinea Pig, Human, Non-Human Primates, Sheep	WB
750-HSP60*	Hsp60	Mouse, Mouse, Rat	WB, IHC, IF
p1182-153	Hsp70 (Ser153) ▲	Human, Most	WB
p168-1160	Insulin Receptor (Thr1160) 🚣	Human, Bovine, Canine, Mouse, Non-Human Primates, Pig, Rat, Xenopus	WB
p170-5359	Interferon- α Receptor, Type I, Subunit I (Ser535,539) $\stackrel{\blacktriangle}{}$	Human, Bovine, Canine, Mouse, Non-Human Primate, Rat, Sheep	WB, IHC
1006-Ki67*	Ki-67	Human, Mouse, Rat	WB, IHC, IF
1027-LAM*	Lamin A/C	Bovine, Human, Mouse, Rat	WB, IF
1030-LAMP1*	LAMP1	Bovine, Human, Mouse, Rat	WB, IF
1098-MAP2*	Microtubule Associated Protein 2 (MAP 2)	Bovine, Human, Mouse, Rat	WB, IHC, IF
1099-MAP2*	Microtubule Associated Protein 2 (MAP 2)	Human, Mouse, Rat	WB, IHC, IF
1100-MAP2*	Microtubule Associated Protein 2 (MAP 2) (UP)	Bovine, Human, Mouse, Rat	WB, IF
1101-MAP2C*	Microtubule Associated Protein 2 C/D (MAP2C/D)	Bovine, Human, Mouse, Rat	WB, IF
1107-MARCKS	MARCKS	Human, Bovine, Chicken, Human, Mouse, Xenopus, Zebrafish	WB
p1185-1526	MARCKS (Ser152,156) ▲	Mouse, Rat, Non-Human Primate	WB, IF
1203-mCherry*	mCherry		WB, IHC, IF

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED
1205-MeCP2*	MeCP2	ON 100% SEQUENCE HOMOLOGY Human, Mouse, Rat	WB, IHC, IF
		, ,	
p1205-80	MeCP2 (Ser80)	Human, Mouse, Rat	WB, IHC
p1205-421	MeCP2 (Ser421) ▲	Mouse, Rat, Human, Non-Human Primate	WB
p1208-222	MEF2C (Ser222) 🚣	Human, Bovine, Chicken, Guinea Pig, Mouse, Non-Human Primate, Rat, Sheep	WB
p180-21822	MEK1/2 (Ser218,222) 4	Mouse, Human, Bovine, Canine, Chicken, Non-Human Primate, Rat, Xenopus, Zebrafish	WB
p180-292	MEK1 (Thr292) ▲	Human, Bovine, Canine, Mouse, Non-Human Primate, Rat	WB
p180-386	MEK1 (Thr386) ▲	Human, Rat, Bovine, Canine, Chicken, Mouse, Non-Human Primate, Xenopus	WB
p183-3115	MEK5 (Ser311, Thr315) ▲	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate, Xenopus, Zebrafish	WB
p186-749	MerTK Tyr749/753/754 ▲	Human, Mouse, Rat, Avian, Bovine, Canine, Guinea Pig, Hamster, Non-Human Primates	WB
2031-mGluR1a	Metabotropic Glutamate Receptor 1a	Mouse, Rat	WB, IHC
2032-mGluR5/1a	Metabotropic Glutamate Receptor 5/1a	Mouse, Rat, Human	WB, IHC
p1230-862	Metabotropic Glutamate Receptor 7 (Ser862)	Mouse, Rat, Bovine, Canine, Human, Non-Human Primate, Zebrafish	WB
1155-MIT*	Mitochondria (UP)	Human	WB, IF, IHC
1157-MFF	Mitochondrial Fission Factor (MFF)	Bovine, Human, Mouse	WB, IHC
1180-Mnk2a	Mnk2a ▲	Human, Non-Human Primate	WB
1181-Mnk2b	Mnk2b ▲	Human, Non-Human Primate	WB
p1305-241	Munc18-1 (Ser241) ▲	Mouse, Bovine, Canine, Chicken, Human, Non-Human Primate, Rat, Sheep	WB
p1305-515	Munc-18 (Ser513) ▲	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate, Xenopus	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
1120-MBP*	Myelin Basic Protein (MBP)	Bovine, Human, Mouse, Rat, Most Mammals	WB, IF
p1311-53	NCC (Thiazide sensitve NaCl cotransporter) (Ser53) ▲	Mouse, Guinea Pig, Hamster	WB
1435-NES*	Nestin	Human, Mouse, Rat	WB, IF
1450-NFH*	Neurofilament H ms	All Mammalian to date, Chicken	WB, IF
1451-NFH*	Neurofilament H ck (UP)	All Mammalian to date, Chicken	WB, IF
1452-NFL*	Neurofilament L ms	Bovine, Chicken, Human, Mouse, Rat	WB, IF
1453-NFL*	Neurofilament L ck (UP)	Bovine, Chicken, Human, Mouse, Rat	WB, IF
1454-NFM*	Neurofilament M ms	Bovine, Chicken, Human, Mouse, Rat	WB, IF
1455-NFM*	Neurofilament M ck (UP)	Bovine, Chicken, Human, Mouse, Rat	WB, IF
p1350-316	NF-kB p65 (Ser316) ▲	Human, Mouse, Bovine, Canine, Goat, Hamster, Pig, Rat	WB
1470-nACB2*	Nicotinic Acetylcholine Receptor (nAChR) 62 🗸	Mouse, Rat	WB
1471-nACB4*	Nicotinic Acetylcholine Receptor (nAChR) 84 🗸	Mouse, Rat	WB
1508-NR1*	NMDA NR1 Subunit	Mouse, Rat	WB, IP
1505-C1	NMDA NR1 Subunit, Splice Variant C1 ▲	Mouse, Rat, Bovine, Canine, Human, Non-Human Primates	WB, IHC
1506-C2	NMDA NR1 Subunit, Splice Variant C2	Mouse, Rat, Human	WB, IHC
1507-C2	NMDA NR1 Subunit, Splice Variant C2	Mouse, Rat, Bovine, Human	WB, IHC
1504-N1	NMDA NR1 Subunit, Splice Variant N1	Mouse, Rat, Canine, Chicken, Human, Non-Human Primates, Xenopus	WB, IHC
1495-NR2A	NMDA NR2A Subunit ▲	Human, Mouse, Rat	WB, IHC, IP

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
1500-NR2A	NMDA NR2A Subunit 4	Human, Mouse, Rat	WB, IHC, IP
1497-NR2A	NMDA NR2A Subunit ₄ (UP)	Human, Mouse, Rat	WB
1501-NR2A	NMDA NR2A Subunit- N-terminus ▲	Rat, Bovine, Canine, Mouse	WB, IHC
p1514-1325	NMDA NR2A Subunit (Tyr1325) ▲	Mouse, Rat	WB
1496-NR2B	NMDA NR2B Subunit ▲	Human, Mouse, Rat	WB, IHC, IP
1499-NR2B	NMDA NR2B Subunit 4	Human, Mouse, Rat	WB, IHC, IP
1498-NR2B	NMDA NR2B Subunit △ (UP)	Human, Mouse, Rat	WB
1503-NR2B	NMDA NR2B Subunit, N-Terminus ▲	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate	WB, IHC
p1516-1166	NMDA NR2B Subunit (Ser1166) ▲	Mouse, Rat, Canine, Human, Non-Human Primates, Xenopus	WB
p1516-1252	NMDA NR2B Subunit (Tyr1252) ▲	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primate, Zebrafish	WB, IHC
p1516-1336	NMDA NR2B Subunit (Tyr1336) ▲	Mouse, Rat, Human, Non-Human Primate	WB, IHC
p1516-1472	NMDA NR2B Subunit (Tyr1472) ▲	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primate, Zebrafish	WB
p1516-1480	NMDA NR2B Subunit (Ser1480) ▲	Mouse, Rat, Bovine, Canine, Chicken, Human, Non-Human Primates, Xenopus	WB
1502-NR2C	NMDA NR2C Subunit ▲	Human, Mouse, Rat	WB, IHC, IF, IP
p1518-1096	NMDA NR2C Subunit (Ser1096) ▲	Mouse, Rat, Bovine, Canine, Human, Non-Human Primates	WB
p1518-1244	NMDA NR2C Subunit (Ser1244) ▲	Mouse, Rat	WB
1515-NPC*	NPC (Nuclear Pore Complex)	Human, Mouse, Rat	IF
1590-NUC	Nuclei (UP)	Human	IF, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
1520-NSE*	NSE (Neuron Specific Enolase) (UP)	Bovine, Chicken, Human, Mouse, Rat	WB, IF
1525-NSF	NSF (N-Ethylmaleimide Sensitive Fusion Protein)	Rat, Human, Mouse	WB
1537-Olig1	Olig1	Human, Mouse, Rat	WB, IHC, IP
1538-Olig2*	Olig2	Human, Mouse, Rat	WB, IHC, IP
p1540-1013	Olig2 (Ser10,13,14) A	Mouse, Rat, Guinea Pig, Human, Non-Human Primate, Zebrafish	WB
p190-1802	p38 MAPK (Thr180/Tyr182) 🚣	Human, Bovine, Canine, Chicken, Mouse, Non-Human Primates, Rat, Zebrafish	WB, IHC
p195-392	p53 (Ser392)	Rat, Human	WB
p196-28	p62 (Ser28) 4	Human, Non-Human Primates	WB
p196-269	p62 (Thr269, Ser272) 4	Human, Non-Human Primates	WB
p187-84	PAK-1 (Thr84) 🚣	Human, Mouse, Rat, Bovine, Canine, Chicken, Non-Human Primates, Sheep, Zebrafish	WB
p187-402	PAK-1,2,3 (Thr402) ▲	Rat, Bovine, Canine, Human, Mouse	WB
p188-63	PanK4 (Thr63) 4	Mouse, Hamster, Rat	WB
1597-Park7*	Park7 (DJ-1)	Bovine, Human, Mouse, Rat	WB, IHC
p197-101	Parkin (Ser101)	Human, Bovine, Non-Human Primate	WB
p197-378	Parkin (Ser378)	Human	WB
1600-PEBP*	PEBP (Phosphatidylethanolamie Binding Protein) <i>(UP)</i>	Rat	WB
1621-PERI*	Periostin C-terminal	Chicken, Human, Mouse, Most Mammalian and Avian	WB, IHC
1622-PERI*	Periostin pan	Chicken, Human, Mouse, Most Mammalian, Avian, Amphibian and Fishes	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
1630-PER	Peripherin ms (UP)	Mouse, Human, Rat, Most Mammalian	WB, IF
1631-PER*	Peripherin ck (UP)	Mouse, Human, Rat, Most Mammalian	WB, IF
1640-PLC	Phospholipase C B2 (PLCB2) ▲	Human, Non-Human Primate	IF, IHC
p202-210	Polo-Like Kinase (Thr210) ▲	Rat, Human, Bovine, Canine, Mouse, Non-Human Primate, Xenopus, Zebrafish	WB
p200-48260	Polo-Like Kinase Kinase (Ser482,486,490) ▲	Xenopus, Rat, Mouse, Human, Zebrafish	WB
1002-KV22	Potassium Channel, Voltage Gated, Kv2.2 Subunit A	Rat	WB, IHC
p1550-503	Potassium Channel, Voltage- Gated, Kv3.1 Subunit (Ser503)	Mouse, Rat	WB, IHC
p1551-940	Potassium Chloride Cotransporter (KCC2) (Ser940)	Rat, Bovine, Canine, Human, Mouse, Non-Human Primate	WB
p1551-1007	Potassium Chloride Cotransporter (KCC2) (Thr1007)	Mouse, Rat, Bovine, Human, Non-Human Primate, Pig, Sheep	WB
p204-356	PRAS40 (Thr356) 4	Drosophila	WB
p205-190	Progesterone Receptor (Ser190)	Human	WB, IHC
p205-294	Progesterone Receptor (Ser294)	Human, Non-Human Primate	WB, IHC
1685-PR0X1	Prox1	Chicken, Human, Mouse, Rat	IHC
1080-PSD95	PSD-95 ▲	Rat, Mouse, Bovine, Human, Non-Human Primate, Zebrafish	WB
p207-459	PTPH1 (Ser459) ▲	Human, Mouse, Bovine, Canine, Non-Human Primate, Sheep	WB
1805-Rab3	Rab 3 🗸	Rat, Human, Mouse, Xenopus, Non-Human Primate	WB
1825-RBP	Rabphilin 3A 🗸	Rat, Mouse, Human, Bovine, Canine, Non-Human Primate	WB
p1553-234	Rabphilin 3A (Ser234) ื	Rat, Mouse	WB, IHC

CATALOG #PRODUCT DESCRIPTIONTESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGYVALIDATE APPLICATp1555-301Raf-1 (Ser301) ▲Human, Rat, Bovine, Canine, Chicken, Mouse, Non-Human Primate, XenopusWBp1555-642Raf-1 (Ser642)Human, Rat, Bovine, Canine, Chicken, Mouse, Human, Rat, Bovine, Canine, Chicken, Mouse,WB	D IONS
Non-Human Primate, Xenopus	
p1555-642 Raf-1 (Ser642) Human, Rat. Bovine, Canine, Chicken, Mouse, WB	
Non-Human Primate	
1830-RBPMS* RBPMS Guinea Pig, Mouse, Non-Human Primate, Rabbit, Rat, Canine, Human, Hamster WB, IHC	
1832-RBPMS* RBPMS Guinea Pig, Mouse, Non-Human Primate, Rabbit, Rat, Canine, Human, Hamster WB, IHC	
p1610-2325 REDD1 (Thr23/25) ▲ Human, Chimpanzee WB	
$\textbf{1330-RXRA} \qquad \text{Retinoic Acid Receptor, } \alpha\text{-lsotype} \qquad \textbf{Human, Mouse, Rat,} \ \text{Bovine, Canine, Guinea Pig} \qquad \qquad \text{WB}$	
1340-RXRBRetinoic Acid Receptor, β-IsotypeHuman, Rat, Canine, Guinea Pig, Mouse, Non-Human PrimateWB	
1320-RXRВ Retinoid X Receptor, β-Isotype Mouse, Rat	
1310-RXRG Retinoid X Receptor, γ-Isotype Human, Rat, Bovine, Mouse, Non-Human Primate WB	
1840-RHORhodopsinMost MammalsWB, IHC	
1850-RSK2Ribosomal S6 Kinase2Human, Bovine, Canine, Chicken, Mouse, RatWB	
p1860-244 Ribosomal protein S6 (Ser 244) ▲ Human, Mouse, Chicken, Guinea Pig, Non-Human Primate, Rat, Xenopus, Zebrafish	
p1705-398 p70 S6 Kinase (Ser398) ▲	
p1705-449 S6 Kinase 1 (Thr449) ▲ Arabidopsis WB	
1900-SAP* SAP49 Bovine, Human, Mouse, Rat WB, IF	
CoV2-2G1 SARS-CoV-2 S-Protein ACE2 Binding Domain SARS-CoV-2 WB, ICC	
CoV2-5G8 SARS-CoV-2 S-Protein ACE2 Binding Domain SARS-CoV-2 WB, ICC	
COV2-RBT SARS-CoV-2 S-Protein ACE2 Binding Domain SARS-CoV-2 WB, ICC	

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CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
p1700-276	Serotonin Transporter (Thr276) 4	Mouse, Rat, Bovine, Human, Non-Human Primate, Sheep, Xenopus	WB
1905-SNAP	SNAP25 A	Rat, Mouse, Human, Zebrafish, Bovine, Canine, Chicken, Guinea Pig, Non-Human Primate	WB
p1558-187	SNAP25 (Ser187) ▲	Mouse, Rat, Guinea Pig, Human, Non-Human Primates, Zebra Fish	WB
1907-S0X2	SOX2 4	Mouse, Human	WB
1505-STAR	Stargazin 4	Rat, Mouse	WB
1904-SMN	Survival Motor Neuron (SMN)	Human, Mouse, Rat	WB, IHC
1926-SYNP	Synapsin I A	Human, Mouse, Rat	WB, IF, IP, IHC
1925-SYNP	Synapsin I 🚣	Human, Mouse, Rat	WB, IF, IP, IHC
1927-SYNP	Synapsin I 🚨 (UP)	Human, Mouse, Rat	WB
p1560-9	Synapsin I (Ser9) 🚣	Mouse, Rat, Bovine, Human, Xenopus and Zebrafish	WB, IHC
p1560-6267	Synapsin I (Ser62,67) ▲	Rat, Mouse, Bovine	WB
p1560-549	Synapsin I (Ser549) 🚣	Rat, Bovine, Canine, Human, Mouse, Non-Human Primate	WB, IHC
p1560-603	Synapsin I (Ser603) 4	Mouse, Rat, Bovine, Human, Xenopus, Zebrafish	WB
1933-SYB	Synaptobrevin (VAMP)	Bovine, Human, Mouse, Pig, Rat, Rabbit, Hamster	WB, IHC
1936-SYNJ	Synaptojanin 1	Rat	WB, IHC
1950-SNT2	Synaptophysin2 4	Rat, Mouse	WB
1975-STG	Synaptotagmin 1 4	Mouse, Rat, Bovine, Chicken, Human, Non-Human Primate	WB
p1570-202	Synaptotagmin (Thr202) 4	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate, Zebrafish	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
p1570-309	Synaptotagmin (Ser309) 4	Rat, Bovine, Canine, Chicken, Human, Mouse, Non-Human Primate, Zebrafish	WB, IHC
1990-STX	Syntaxin	Human, Rat, Pig, Hamster	WB, IHC
p275-181	TA02 (Ser181) 4	Human, Mouse, Rat, Canine, Finch, Xenopus, Zebrafish	WB
1998-TAU*	Tau <i>(UP)</i>	Human, Rat	WB, IF
p1573-416	Tau (Ser416) ▲	Mouse, Rat, Bovine, Canine, Human, Non-Human Primate	WB
2000-TDP*	TDP43	Human, Rat	WB, IHC
1999-hTFAM	TFAM (Transcription Factor A, mitochondrial) (UP)	Human	WB
2001-TFAM*	TFAM (Transcription Factor A, mitochondrial) (UP)	Human, Mouse, Rat	WB
2003-TGN38	TGN38/46 [▲]	Mouse, Rat	WB
1210-TRa	Thyroid Hormone Receptor, $\alpha 1/\alpha 2$ -Isotype	Human, Rat, Canine, Mouse, Non-Human Primate	WB
1220-TRa	Thyroid Hormone Receptor, $\alpha 1/\alpha 2$ -Isotype	Human, Rat, Canine, Mouse, Non-Human Primate	WB
1230-TRa2	Thyroid Hormone Receptor, α2-Isotype	Human, Rat, Bovine, Mouse, Non-Human Primate	WB
1240-TRb	Thyroid Hormone Receptor, ß-Isotype	Human	WB
2002-TR2*	Testicular Receptor 2 (TR2) (UP)	Human, Mouse, Rat	WB
2004-TR4*	Testicular Receptor 4 (TR4) (UP)	Human, Mouse, Rat	WB
2006-TREM2	TREM2 🚣	Mouse, Human	WB, ICC
2007-TRKB	Trk B	Rat	WB
2010-TNI	Troponin I, Cardiac 🚣	Mouse, Rat	WB

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CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
p2010-2324	Troponin I, Cardiac (Ser23/24) ▲	Mouse, Rat, Human, Non-Human Primate	WB
p2010-43	Troponin I, Cardiac (Ser43) 4	Mouse, Rat, Bovine, Canine, Human, Non-Human Primate, Sheep, Xenopus, Zebrafish	WB
p2010-150	Troponin I, Cardiac (Ser150) 🗸	Mouse, Rat, Human, Non-Human Primate	WB
2015-TPH	Tryptophan Hydroxylase 4	Human, Rat, Wide Variety Mammalian	WB, IHC
p1575-19	Tryptophan Hydroxylase (Ser19) ▲	Rat, Bovine, Mouse, Zebrafish	WB
p1575-58	Tryptophan Hydroxylase (Ser58) ▲	Rabbit, Bovine, Chicken, Human, Mouse, Non-Human Primate, Rat, Xenopus, Zebrafish	WB
p1575-260	Tryptophan Hydroxylase (Ser260) ▲	Human, Rat, Bovine, Canine, Chicken, Mouse, Zebrafish	WB
2020-TUB	Tubulin, Beta III	Rat	WB, IHC
2025-THRAB	Tyrosine Hydroxylase 🚣	All Mammalian Species	WB, IF, IHC
2026-LNC1	Tyrosine Hydroxylase	All Mammalian Species	WB, IF, IHC
2027-THSHP	Tyrosine Hydroxylase 🚣	All Mammalian Species	WB, IF, IHC
p1580-31	Tyrosine Hydroxylase (Ser31) ▲	Mouse, Rat, Non-Human Primate	WB, IF, IHC
p1580-40	Tyrosine Hydroxylase (Ser40) ▲	Many Mammalian Species/Many Non-mammalian	WB, IF, IHC
2060-UCHL1*	Ubiquitin C-Terminal Hydrolase 1 (UCHL1)ms	Bovine, Human, Mouse, Rat	WB, IF
2061-UCHL1*	Ubiquitin C-Terminal Hydrolase 1 (UCHL1)ck <i>(UP)</i>	Bovine, Human, Mouse, Rat	WB, IF
2100-VGAT	Vesicular GABA Transporter (VGAT) [▲]	Rat, Bovine, Canine, Non-Human Primate	WB
2105-VIM*	Vimentin (UP)	Bovine, Human, Mouse, Rat	WB, IF
2106-VIM	Vimentin	Human	WB, IHC

CATALOG #	PRODUCT DESCRIPTION	TESTED/ASSUMED-BASED ON 100% SEQUENCE HOMOLOGY	VALIDATED APPLICATIONS
2107-VIM*	Vimentin	Bovine, Human, Mouse, Rat	WB, IF
2145-VSNL1*	Visinin-Like Protein 1 (VSNL1)	Bovine, Human, Mouse, Rat	WB, IF
2250-VMAT2C	Vesicular Monoamine Transporter 2, C-terminus (VMAT2 ♣)	Rat	WB
p2400-295	Xin Actin-binding Repeat-containing Protein 1 (XIRP1) (Ser295) ▲	Mouse, Canine, Human, Non-Human Primate, Rat	WB

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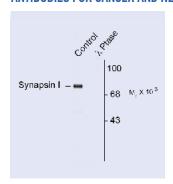
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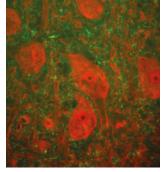
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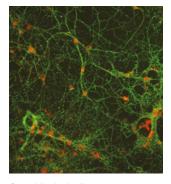
Anti-Phospho Synapsin Ser9

Western blot of rat cortex lysate showing the phospho-specific immunolabeling of anti-phospho synapsin Ser9 (cat. # p1560-9)



Anti-UCHL1

Immunostaining of rat spinal cord section with mouse anti-UCHL1 (cat. # 2060-UCHL1) showing specific cytoplasmic labeling (red) of the perikarya and dendrites of the large motorneuron cells and the axonal labeling (green of antineurofilament H (cat. # 1451-NF-H).



Specific Labeling of Synapsin

Immunostaining of 14 day cultured CD1 mouse brain striatal cells showing specific labeling of Synapsin (Cat.#1925-SYNP) in green and PGP in red. Cells and photo courtesy of QBMCellScience.

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