

FIX&PERM[®] Cell Fixation and Permeabilization

Reaching targets for better flow cytometry staining

Intracellular staining of protein biomarkers using antibodies in flow cytometry now allows a number of ways for phenotypic and functional characterization of cells in both research and clinical diagnosis.

Definitive phenotypic identification of certain cell types can require labelling of both cell surface and intracellular markers. The cytoplasmic localization of typical membrane molecules can also prove to be a reliable lineage marker, such as cytoplasmic CD3 and CD22 in undifferentiated leukemia.

We can provide cell fixation and permeabilization reagents which assist antibodies to optimally stain their cell protein biomarkers.

FIX&PERM[®]

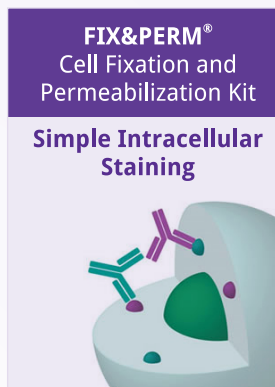
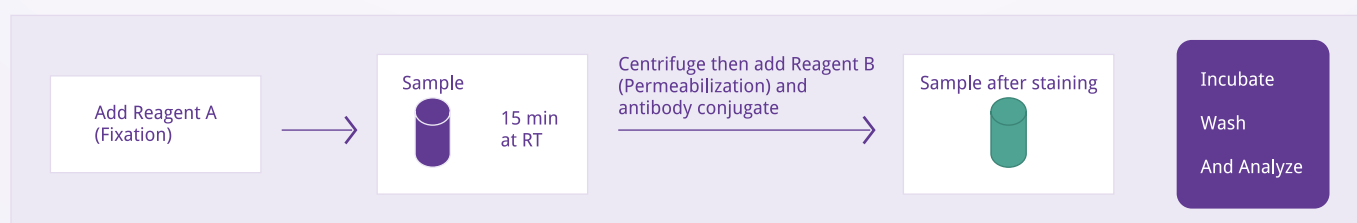
- Mildly fixes cells, preserving their flow cytometric scatter characteristics
- Allows simultaneous characterization of both intracellular and cell surface markers
- Rapid technique – whole procedure can be carried out in less than one hour, ready for immediate analysis or storage for 24 hours at 4°C
- Stringent QC procedures – the quality of each lot is determined using well-defined blood samples and subsequent comparison of scatter characteristics of obtained leukocyte populations, ensuring consistent and reliable results lot after lot
- A range of intracellular antibodies with optimized protocols for use with FIX&PERM[®]

Choose from our range of complete kits or separate components:

Product Name	Quantity	Catalog Number
FIX&PERM [®] Kit (CE)	2x20ml	orb180078
FIX&PERM [®] Sample Kit (CE)	2x5ml	orb180079
FIX&PERM [®] Kit 1000 (CE)	2x100ml	orb180080
FIX&PERM [®] Solution A (Fix) (CE)	1x100ml	orb180081
FIX&PERM [®] Solution B (Perm) (CE)	1x100ml	orb180082
NM LYSE: Flow Cytometry Lysing	30ml	orb180088
NM LYSE: Flow Cytometry Lysing Solution	100ml	orb180089

How does it work?

FIX&PERM[®] is a simple procedure making use of two reagents. Reagent A gently fixes cells, while Reagent B permeabilizes them. The specific formulations reduce background and allow simultaneous addition of permeabilization reagent and fluorochrome labelled antibodies.



Products optimized for use with FIX&PERM® for leukemia detection via flow cytometry

The majority of available monoclonal antibody conjugates can be used with FIX&PERM® and are CE certified. However, in some cases the fixation step may have to be optimized.

We offer a number of mouse anti-human conjugated (PE/FITC) monoclonal antibodies ready for use with FIX&PERM®.

Antigen	Clone	Isotype	Format	Quantity	Catalog Number
CD3	UCHT1	IgG1	Purified	0.2 mg	orb180041
CD3	UCHT1	IgG1	PE-labeled	100 tests	orb180043
CD14	MEM18	IgG1	Purified	0.2 mg	orb180061
CD14	MEM18	IgG1	FITC-labeled	100 tests	orb180062
CD22	RFB4	IgG1	Purified	0.2 mg	orb180044
CD22	RFB4	IgG1	FITC-labeled	100 tests	orb180045
CD22	RFB4	IgG1	PE-labeled	100 tests	orb180046
CD45	VIT200	IgG2a	Purified	0.2 mg	orb180064
CD45	VIT200	IgG2a	FITC-labeled	100 tests	orb180065
CD65s	VIM2	IgM	Purified	0.2 mg	orb180066
CD65s	VIM2	IgM	FITC-labeled	100 tests	orb180067
CD68 (Macrosialin)	Ki-M7	IgG1	FITC-labeled	100 tests	orb180047
Lactoferrin	4C5	IgG1	Purified	0.2 mg	orb180051
Lactoferrin	4C5	IgG1	PE-labeled	100 tests	orb180052
Myeloperoxidase	8E2	IgG1	Purified	0.2 mg	orb180048
Myeloperoxidase	8E2	IgG1	FITC-labeled	100 tests	orb180049
Myeloperoxidase	8E2	IgG1	PE-labeled	100 tests	orb180050
Lysozyme	LZ-2	IgG1	Purified	0.2 mg	orb180053
Lysozyme	LZ-2	IgG1	FITC-labeled	100 tests	orb180054
Lysozyme	LZ-2	IgG1	PE-labeled	100 tests	orb180055
Cd68	Ki-M7	IgG1	FITC-labeled	100 tests	orb180047
Negative Control	VI-AP	IgG1	Purified	100 tests	orb180083
Negative Control	VI-AP	IgG1	FITC-labeled	100 tests	orb180084
Negative Control	VI-AP	IgG1	PE-labeled	100 tests	orb180085

Furthermore, a number of Combination Panels are offered for dual immunostaining protocols.

Antigen	Clone	Isotype	Format	Quantity	Catalog Number
Negative control	UCHT1	IgG1	FITC and PE	50 tests	orb180086
IgG2a Negative Control and IgG1 Negative Control	UCHT1	IgG1 and IgG2a	FITC and PE	50 tests	orb180087
Myeloperoxidase-C2 and Lactoferrin	UCHT1	IgG1	FITC and PE	50 tests	orb180056
Myeloperoxidase-C2 and CD3	MEM18	IgG1	FITC and PE	50 tests	orb180057
Myeloperoxidase-C2 and CD22	MEM18	IgG1	FITC and PE	50 tests	orb180058
Lysozyme and Lactoferrin	RFB4	IgG1	FITC and PE	50 tests	orb180059
CD45 and CD14	RFB4	IgG1 and IgG2a	FITC and PE	50 tests	orb180060