PRDM1 / BLIMP-1 Antibody

Mouse Monoclonal Antibody [Clone PCRP-PRDM1-2B9]

Catalog No	Format	Size
639-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
639-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
639-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

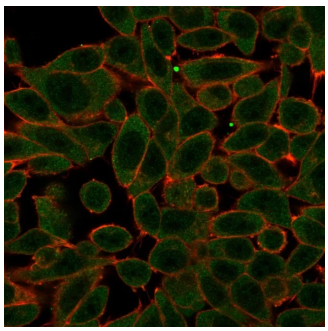
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

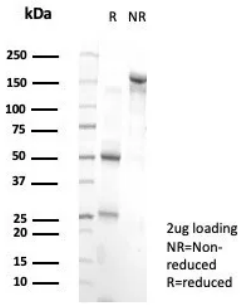
Clone	PCRP-PRDM1-2B9
Gene Name	PRDM1
Immunogen	Recombinant full-length human PRDM1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a
Mol. Weight of Antigen	114.8kDa
Cellular Localization	Nucleus. Cytoplasm.
Species Reactivity	Human, Mouse
Positive Control	HeLa or MCF-7 cells.

**Optimal dilution for a specific application should be determined.*

Product Images for PRDM1 / BLIMP-1 Antibody

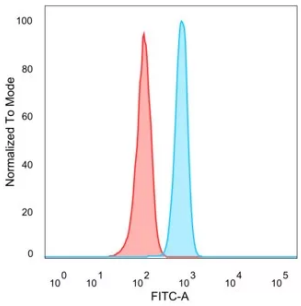


Immunofluorescence Analysis of PFA-fixed HeLa cells stained using PRDM1 Mouse Monoclonal Antibody (PCRP-PRDM1-2B9) followed by goat anti-mouse IgG-CF488 (green). CF640R phalloidin (red).



SDS-PAGE Analysis of Purified PRDM1 Mouse Monoclonal Antibody (PCRP-PRDM1-2B9) Confirmation of Purity and Integrity of Antibody.

Analysis of Protein Array containing more than 19,000 full-length human proteinsusing PRDM1 Mouse Monoclonal Antibody (PCRP-PRDM1-2B9). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometric Analysis of PFA-fixed HeLa cells. PRDM1 Mouse Monoclonal Antibody (PCRP-PRDM1-2B9) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

Specificity & Comments

The development and differentiation of plasma cells, which are terminally differentiated B-cells, are induced by Blimp-1 (B lymphocyte-induced maturation protein, also designated PRDI-BF1). Blimp-1 is a transcriptional repressor that localizes to the nucleus and is considered a master regulator of terminal B-cell development. Alone, Blimp-1 is sufficient to trigger terminal B-cell differentiation. Blimp-1 upregulates the expression of syndecan-1 and J chain, represses IFN-b gene transcription and associates with HDAC to recruit it to DNA, thereby repressing c-Myc. Blimp-1 is expressed during the late stages of B-cell differentiation in immunoglobulin-secreting plasma cells, as well as in long-lived, bone marrow plasma cells. The expression of Blimp-1 defines a checkpoint beyond which fully activated B cells proceed to the plasma cell stage, whereas immature and partially activated cells are eliminated.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Nuclear Marker, Signal Transduction, Transcription Factors

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.