PRMT6 Antibody

Mouse Monoclonal Antibody [Clone PCRP-PRMT6-2C9]

Catalog No	Format	Size
55170-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
55170-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
55170-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

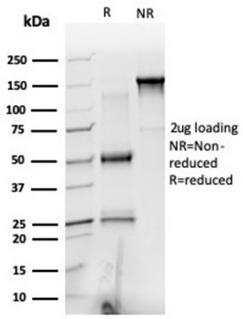
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

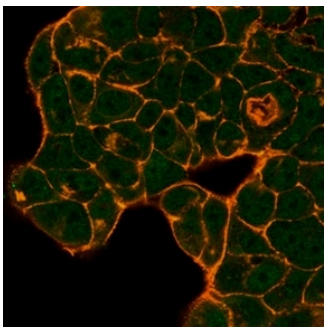
Clone	PCRP-PRMT6-2C9
Gene Name	PRMT6
Immunogen	Recombinant full-length human PRMT6 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b
Mol. Weight of Antigen	42kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	HeLa, MCF7 or HepG2 cells.

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

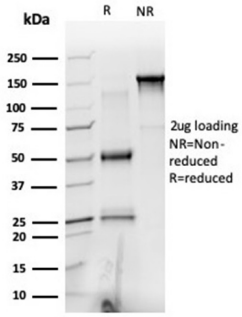
Product Images for PRMT6 Antibody



SDS-PAGE Analysis. Purified PRMT6 Mouse Monoclonal Antibody (PCRP-PRMT6-2C9). Confirmation of Purity and Integrity of Antibody.



Immunofluorescence Analysis of PFA-fixed MCF7 cells stained using PRMT6 Mouse Monoclonal Antibody (PCRP-PRMT6-2C9) followed by goat anti-mouse IgG-CF488 (green). CF640R phalloidin (red).



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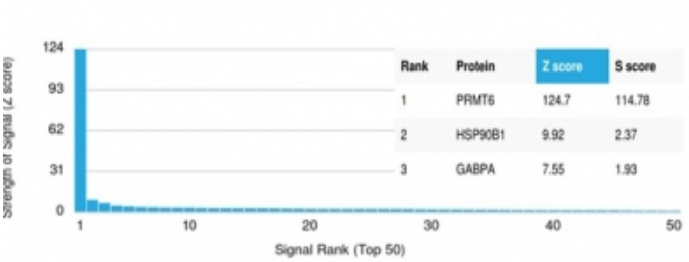
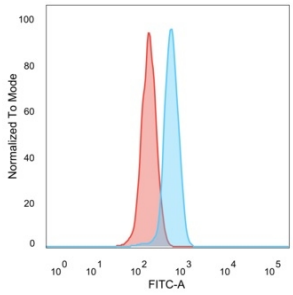


Analysis of Protein Array containing more than 19,000 full-length human proteinsusing PRMT6 Mouse Monoclonal Antibody (PCRP-PRMT6-2C9). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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. PRMT6 Mouse Monoclonal Antibody (PCRP-PRMT6-2C9) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

Specificity & Comments

A class of proteins termed type 1 protein arginine N-methyltransferase (PRMT) enzymes contribute to posttranslational modification of RNA-binding proteins, but differ in substrate specificities, oligomerization properties and subcellular localization. PRMTs contain an S-adenosylmethione motif which functions to add one or two methyl groups to guanidino nitrogens of arginine (R) side chains. PRMT6, also known as HRMT1L6, is a nuclear protein belonging to the PRMT family and is predominantly expressed in testis and kidney. It is known to methylate Histones H3, H4 and H2A. PRMT6 is the major dimethyltransferase for Histone H3 and specifically methylates Histone H3 at R2. Methylation at Histone H3 R2 acts to inhibit Histone H3 K4 trimethylation and ultimately leads to the transcriptional repression of genes that are activated by Histone H3 K4 trimethylation. In addition, PRMT6 methylates HIV TAT, possibly functioning as a form of cellular innate immunity to restrict levels of HIV replication.

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

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.