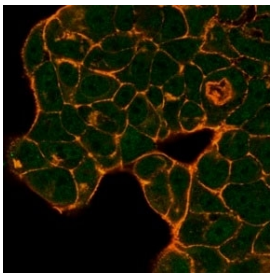
PRMT6 Antibody [clone PCRP-PRMT6-2C9] (V9235)

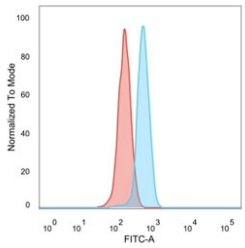
Catalog No.	Formulation	Size
V9235-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9235-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9235SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

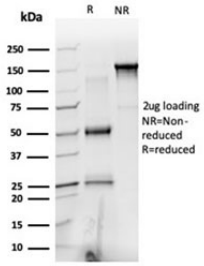
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	PCRP-PRMT6-2C9
Purity	Protein A/G affinity
UniProt	Q96LA8
Localization	Nucleus
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
Limitations	This PRMT6 antibody is available for research use only.



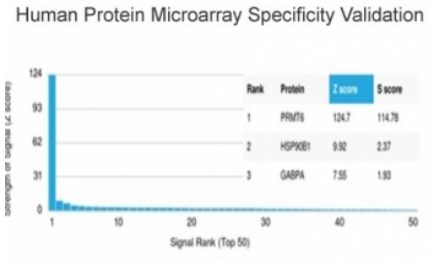
Immunofluorescent staining of PFA-fixed human MCF-7 cells using PRMT6 antibody (green, clone PCRP-PRMT6-2C9) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with PRMT6 antibody (blue, clone PCRP-PRMT6-2C9), and unstained cells (red).



SDS-PAGE analysis of purified, BSA-free PRMT6 antibody (PCRP-PRMT6-2C9) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using PRMT6 antibody (clone PCRP-PRMT6-2C9). These results demonstrate the foremost specificity of the PCRP-PRMT6-2C9 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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.

Application Notes

Optimal dilution of the PRMT6 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human PRMT6 protein was used as the immunogen for the PRMT6 antibody.

Storage

Aliquot the PRMT6 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.