

For Research Use Only

CoraLite® Plus 488-conjugated PRMT6 Monoclonal antibody



Catalog Number: CL488-67981

Basic Information

Catalog Number: CL488-67981	GenBank Accession Number: BC002729	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 55170	CloneNo.: 4B5A9
Source: Mouse	UNIPROT ID: Q96LA8	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG2a	Full Name: protein arginine methyltransferase 6	
Immunogen Catalog Number: AG7934	Calculated MW: 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human, Mouse, Rat

Background Information

Protein arginine methyltransferase 6 (PRMT6) is a type I PRMT which is involved in epigenetic regulation of gene expression, alternative splicing, development and differentiation, DNA repair, cell proliferation and senescence, DNA methylation, mitosis, inflammation, innate antiviral immunity, spermatogenesis, transactivation of nuclear receptors and cell signaling. The human PRMT6 gene, located on Chromosome 1, encodes for the 41.9 kDa PRMT6 enzyme. PRMT6 is predominantly localized to the nucleus, in stark contrast to PRMT3 and PRMT5 which are preponderantly cytosolic, while other PRMTs are found in both nucleus and cytosol. PRMT6 is expressed in a wide range of tissues with high expression in kidney and testes. PRMT6 generates asymmetric dimethylation modifications in histone 3 at arginine 2, arginine 17 and arginine 42 (H3R2me2a, H3R17me2a and H3R42me2a) and in histone H2A at arginine 26 (H2AR26me2a) and participates in the epigenetic regulation of gene expression.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

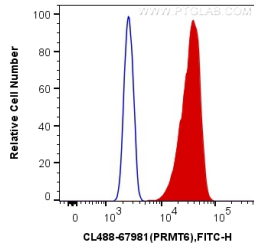
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human PRMT6 (CL488-67981, Clone:4B5A9) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).