

For Research Use Only

# PRMT6 Monoclonal antibody

Catalog Number: 67981-1-Ig

Featured Product

1 Publications



## Basic Information

Catalog Number:

67981-1-Ig

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG7934

GenBank Accession Number:

BC002729

GeneID (NCBI):

55170

UNIPROT ID:

Q96LA8

Full Name:

protein arginine methyltransferase 6

Calculated MW:

42 kDa

Observed MW:

42 kDa

Purification Method:

Protein A purification

CloneNo.:

4B5A9

Recommended Dilutions:

WB: 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB: HeLa cells, MCF-7 cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinyu Yang	38424136	Leukemia	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

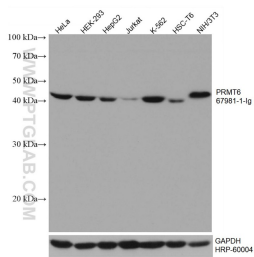
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

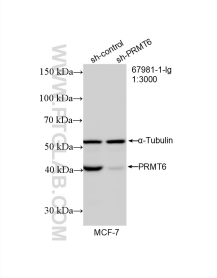
W: [ptgcn.com](http://ptgcn.com)

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67981-1-Ig (PRMT6 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



WB result of PRMT6 antibody (67981-1-Ig; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRMT6 transfected MCF-7 cells.