

For Research Use Only

# PRMT5 Polyclonal antibody

Catalog Number: 18436-1-AP

Featured Product

24 Publications



## Basic Information

### Catalog Number:

18436-1-AP

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9736

### GenBank Accession Number:

BC025979

### GeneID (NCBI):

10419

### UNIPROT ID:

O14744

### Full Name:

protein arginine methyltransferase 5

### Calculated MW:

637 aa, 73 kDa

### Observed MW:

68-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:8000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HepG2 cells, HeLa cells, Jurkat cells, mouse embryo tissue, Raji cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue

**IP** : mouse brain tissue,

**IHC** : human breast cancer tissue, human lymphoma tissue, human lung tissue, human colon cancer tissue, human lung cancer tissue, mouse liver tissue

**IF/ICC** : HepG2 cells, HeLa cells

**FC (Intra)** : HeLa cells,

## Background Information

PRMT5 is a Type II enzyme that catalyzes arginine monomethylation and symmetric dimethylation (Rme1 and Rme2s). The many targets of PRMT5 include ribosomal proteins, the histone chaperone nucleoplasmin, p53, and histones. PRMT5 is frequently observed in a complex with the cofactor, methylome protein 50 (MEP50), which is required for PRMT5 activity. PRMT5 is upregulated in several human malignancies, including lymphomas, lung cancer, breast cancer and colorectal cancer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhongwei Li	36114164	J Med Virol	WB,IP,CoIP
Lei Tan	32392182	Aging (Albany NY)	WB,IHC
Xin Li	28361952	Nat Commun	WB,IP

## 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:

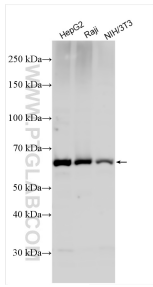
T: 4006900926

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

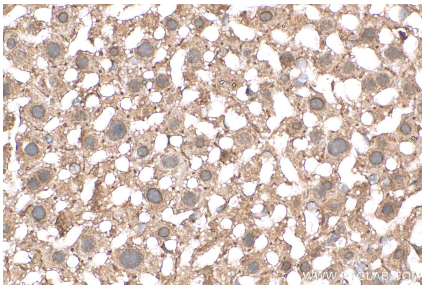
W: [ptgcn.com](http://ptgcn.com)

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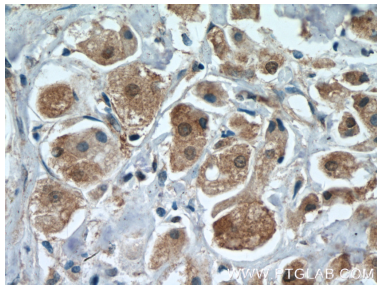
Selected Validation Data



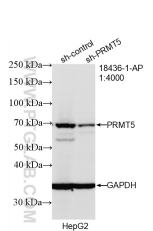
Various lysates were subjected to SDS PAGE followed by western blot with 18436-1-AP (PRMT5 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



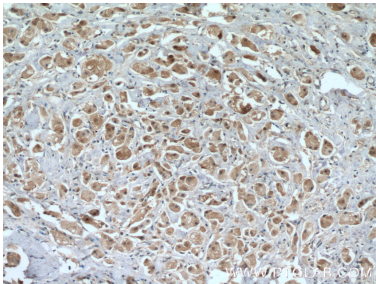
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 18436-1-AP (PRMT5 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



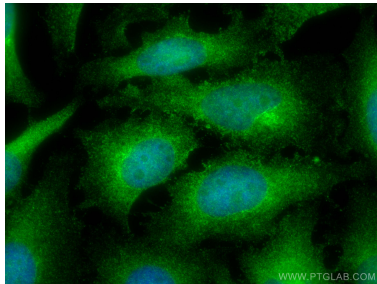
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18436-1-AP (PRMT5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



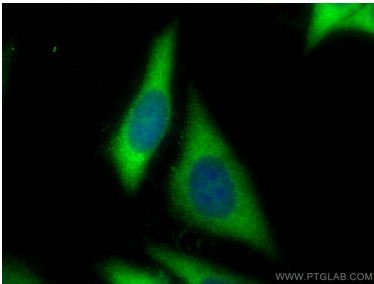
WB result of PRMT5 antibody (18436-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRMT5 transfected HepG2 cells.



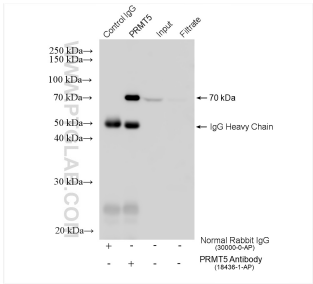
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18436-1-AP (PRMT5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



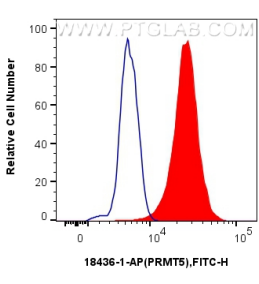
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PRMT5 antibody (18436-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PRMT5 antibody (18436-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-PRMT5 (IP:18436-1-AP, 4ug; Detection:18436-1-AP 1:2000) with mouse brain tissue lysate 1280 ug.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human PRMT5 (18436-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug rabbit IgG isotype control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.