



# PRMT5 Rabbit mAb

<b>Catalog No</b>	YP-rAb-17072
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB,IHC,IF,IP,ELISA
<b>Gene Name</b>	PRMT5 HRMT1L5 IBP72 JBP1 SKB1
<b>Protein Name</b>	Protein arginine N-methyltransferase 5 (72 kDa ICl $\alpha$ -binding protein) (Histone-arginine N-methyltransferase PRMT5) (Jak-binding protein 1) (Shk1 kinase-binding protein 1 homolog) (SKB1 homolog) (SKB1Hs) [Cleaved into: Protein arginine N-methyltransferase 5, N-terminally processed]
<b>Purification Process</b>	Protein A
<b>Specificity</b>	Endogenous
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Dilution</b>	IHC 1:500-1:2000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
<b>Concentration</b>	0.5 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-15° C to -25° C/1 year(Do not lower than -25° C)
<b>Synonyms</b>	
<b>Observed Band</b>	70kD
<b>Calculated Molecular Weight</b>	73kD
<b>Cell Pathway</b>	Cytoplasm . Nucleus . Chromosome . Golgi apparatus . Localizes to promoter regions of target genes on chromosomes. .
<b>Tissue Specificity</b>	Ubiquitous.
<b>Function</b>	Alternative products:A number of isoforms are produced. According to EST sequences,Catalytic activity:S-adenosyl-L-methionine + histone-arginine = S-adenosyl-L-homocysteine + histone-N(omega)-methyl-arginine.,Function:Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3); such methylation being required for the assembly and biogenesis of snRNP core particles. Methylates SUPT5H. Mono- and dimethylates arginine residues of myelin basic protein (MBP) in vitro. Plays a role in the assembly of snRNP core

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particles. May play a role in cytokine-activated transduction pathways. Negatively regulates cyclin E1 promoter activity and cellular proliferation. May regulate the SUPT5H transcriptional elongation properties. May be part of a pathway that is connected to a chloride current, possibly through cytoskeletal rearrangement. Methylates histone H2A and H4 'Arg-3' during germ cell development. Methylates histone H3 'Arg-8', which may repress transcription. PTM: Disulfide bonds and non-covalent association mediate homooligomers formation. similarity: Belongs to the protein arginine N-methyltransferase family. subunit: Forms, at least, homodimers and homotetramers. Interacts with PRDM1 (By similarity). Component of the methylosome, a 20S complex containing at least pICln, PRMT1/SKB1 and MEP50. Component of a high molecular weight E2F-pocket protein complex, CERC (cyclin E1 repressor complex). Also interacts with Sm proteins, JAK2, SSTR1 and SUPT5H. Associates with SWI/SNF remodeling complexes containing SMARCA2 and SMARCA4. Interacts with PRMT7 and SNRPD3. Interacts with COPR5/C17orf79; promoting its recruitment on histone H4. tissue specificity: Ubiquitous.

### Background

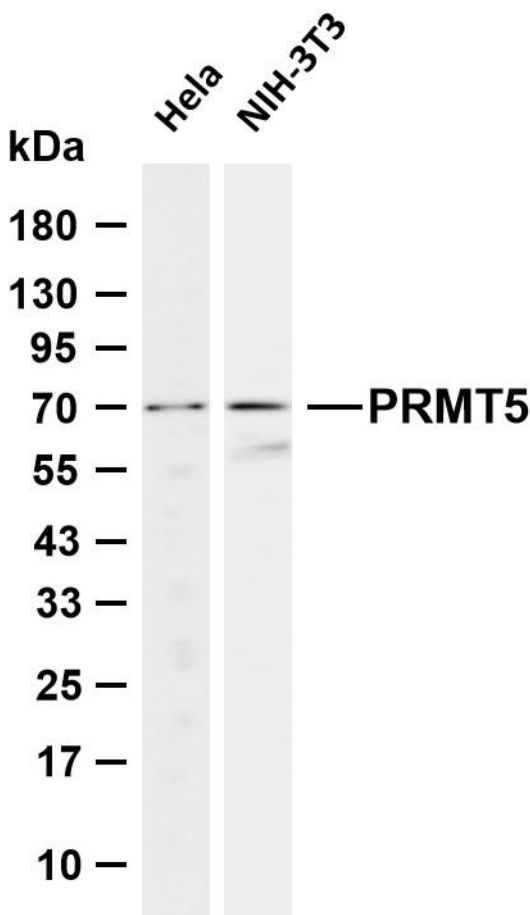
This gene encodes an enzyme that belongs to the methyltransferase family. The encoded protein catalyzes the transfer of methyl groups to the amino acid arginine, in target proteins that include histones, transcriptional elongation factors and the tumor suppressor p53. This gene plays a role in several cellular processes, including transcriptional regulation, and the assembly of small nuclear ribonucleoproteins. A pseudogene of this gene has been defined on chromosome 4. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015],

### matters needing attention

Avoid repeated freezing and thawing!

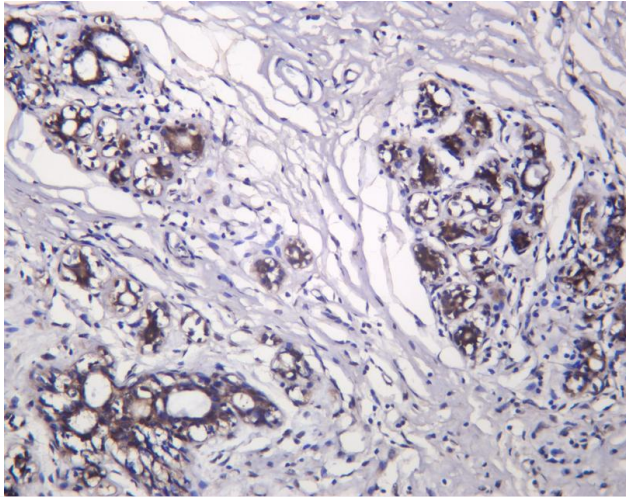
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PRMT5 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: NIH-3T3 Predicted band size: 73kDa Observed band size: 70kDa





Human infiltrating duct carcinoma of breast was stained with anti-PRMT5 Rabbit antibody

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