

**DATASHEET**

**PRMT5 Rabbit Polyclonal Antibody**

CAT. NO. APA13650

**KEY FEATURES**

Target	PRMT5	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC, IP, ChIP	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

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 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 and may regulate its transcriptional elongation properties . May methylate the N-terminal region of MBD2 . Mono- and dimethylates arginine residues of myelin basic protein (MBP) in vitro. May play a role in cytokine-activated transduction pathways.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	1:50 - 1:200
ChIP	1:20 - 1:100

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to PRMT5
Specificity	Recognizes endogenous levels of PRMT5 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide of human PRMT5
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 53; Observed: 70 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	HRMT1L5; IBP72; JBP1; SKB1; 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
Gene Symbol	PRMT5
Entrez Gene	10419(Human); 27374(Mouse)
SwissProt	O14744(Human); Q8CIG8(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

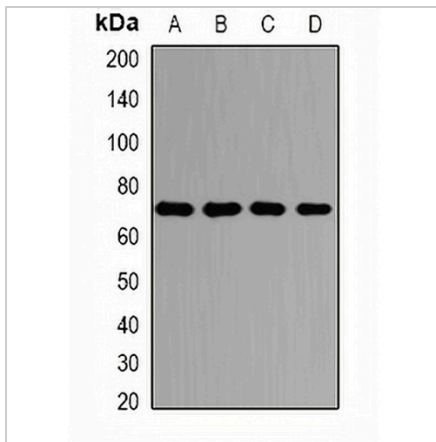
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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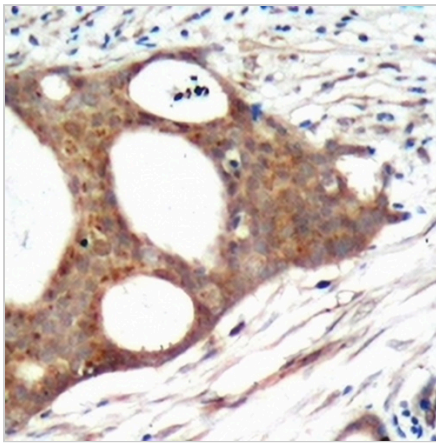
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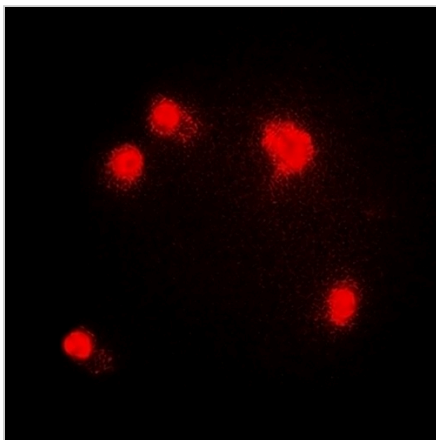
**DATA**



Western blot analysis of PRMT5 expression in HepG2 (A), HeLa (B), NIH3T3 (C), PC12 (D) whole cell lysates. (Predicted band size: 53; 66; 67; 71; 72 kD; Observed band size: 70 kD)



Immunohistochemical analysis of PRMT5 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of PRMT5 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.