



Datasheet for ABIN7165071  
**anti-PRMT5 antibody (AA 297-534)**



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2 Images

Overview

Quantity:	100 µg
Target:	PRMT5
Binding Specificity:	AA 297-534
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRMT5 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Protein arginine N-methyltransferase 5 protein (297-534AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PRMT5
Alternative Name:	PRMT5 ( <a href="#">PRMT5 Products</a> )
Background:	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 (PubMed:10531356, PubMed:11152681, PubMed:11747828, PubMed:12411503, PubMed:15737618, PubMed:17709427, PubMed:20159986, PubMed:20810653, PubMed:21258366, PubMed:21917714, PubMed:22269951). 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 (PubMed:12411503, PubMed:11747828, PubMed:17709427). Methylates SUPT5H and may regulate its transcriptional elongation properties (PubMed:12718890). Mono- and dimethylates arginine residues of myelin basic protein (MBP) in vitro. May play a role in cytokine-activated transduction pathways. Negatively regulates cyclin E1 promoter activity and cellular proliferation. Methylates histone H2A and H4 'Arg-3' during germ cell development. Methylates histone H3 'Arg-8', which may repress transcription. Methylates the Piwi proteins (PIWIL1, PIWIL2 and PIWIL4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage (By similarity). Methylates RPS10. Attenuates EGF signaling through the MAPK1/MAPK3 pathway acting at 2 levels. First, monomethylates EGFR, this enhances EGFR 'Tyr-1197' phosphorylation and PTPN6 recruitment, eventually leading to reduced SOS1 phosphorylation (PubMed:21917714, PubMed:21258366). Second, methylates RAF1 and probably BRAF, hence destabilizing these 2 signaling proteins and reducing their catalytic activity (PubMed:21917714). Required for induction of E-selectin and VCAM-1, on the endothelial cells surface at sites of inflammation. Methylates HOXA9 (PubMed:22269951). Methylates and regulates SRGAP2 which is involved in cell migration and differentiation (PubMed:20810653). Acts as a transcriptional corepressor in CRY1-mediated repression of the core circadian component PER1 by regulating the H4R3 dimethylation at the PER1 promoter (By similarity). Methylates GM130/GOLGA2, regulating Golgi ribbon formation (PubMed:20421892). Methylates H4R3 in genes involved in glioblastomagenesis in a CHTOP- and/or TET1-dependent manner (PubMed:25284789). Symmetrically methylates POLR2A, a modification that allows the recruitment to POLR2A of proteins including SMN1/SMN2 and SETX. This is required for resolving RNA-DNA hybrids created by RNA polymerase II, that form R-loop in transcription terminal regions, an important step in proper transcription termination (PubMed:26700805).

Aliases: 72 kDa ICLn binding protein antibody, 72 kDa ICLn-binding protein antibody, ANM5\_HUMAN antibody, Histone synthetic lethal 7, *S. cerevisiae*, homolog of antibody, Histone-arginine N-methyltransferase PRMT5 antibody, HMT1 hnRNP methyltransferase like 5 antibody, HOMOLOG OF, SKB1 antibody, HRMT1L5 antibody, IBP72 antibody, Jak-binding protein 1 antibody, JBP 1 antibody, JBP1 antibody, PRMT 5 antibody, PRMT5 antibody, Protein arginine methyltransferase 5 antibody, Protein arginine N methyltransferase 5 antibody, Protein

## Target Details

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arginine N methyltransferase 5 N terminally processed antibody, Protein arginine N-methyltransferase 5 antibody, S. POMBE antibody, S. POMBE HOMOLOG OF, SKB1 antibody, SHK1 KINASE BINDING PROTEIN 1 antibody, Shk1 kinase binding protein 1 homolog antibody, Shk1 kinase-binding protein 1 homolog antibody, Shk1 kinase/binding protein 1, S. pombe, homolog of antibody, SKB 1 antibody, SKB1 antibody, SKB1 homolog antibody, SKB1: SKB1 homolog (S. pombe) antibody, SKB1Hs antibody

UniProt: [O14744](#)

Pathways: [Chromatin Binding](#), [Regulation of Muscle Cell Differentiation](#), [Ribonucleoprotein Complex Subunit Organization](#), [Skeletal Muscle Fiber Development](#)

## Application Details

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Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

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Format: Liquid

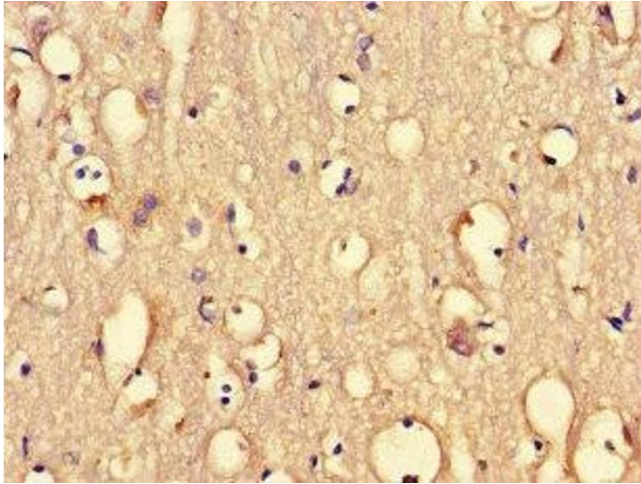
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

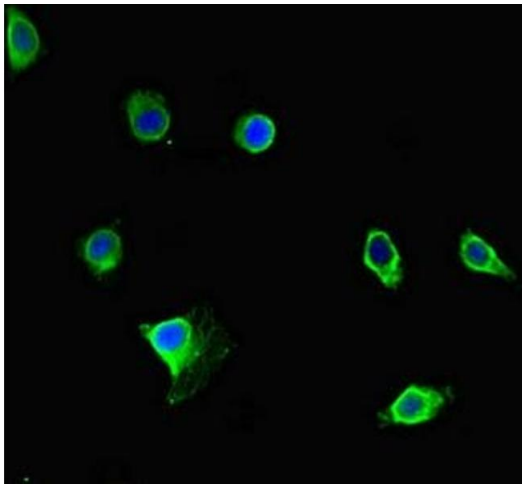
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



#### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human brain tissue using ABIN7165071 at dilution of 1:100



#### Immunofluorescence

**Image 2.** Immunofluorescent analysis of HeLa cells using ABIN7165071 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)