

PRMT7 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10045**Specification**

PRMT7 Antibody - Product Information

Application	WB
Primary Accession	O9NVM4
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	78459

PRMT7 Antibody - Additional Information**Gene ID** 54496Positive Control
Application & Usage**Jurkat cell lysate**
The antibody can be used in Western Blot analysis (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. Blocking peptide is available separately.**Other Names**

Protein arginine N-methyltransferase 7, PRMT7

Target/Specificity

PRMT7

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-PRMT7 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

PRMT7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PRMT7 Antibody - Protein Information

Name PRMT7

Synonyms KIAA1933

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. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro; the relevance of such results is however unclear in vivo.

Cellular Location

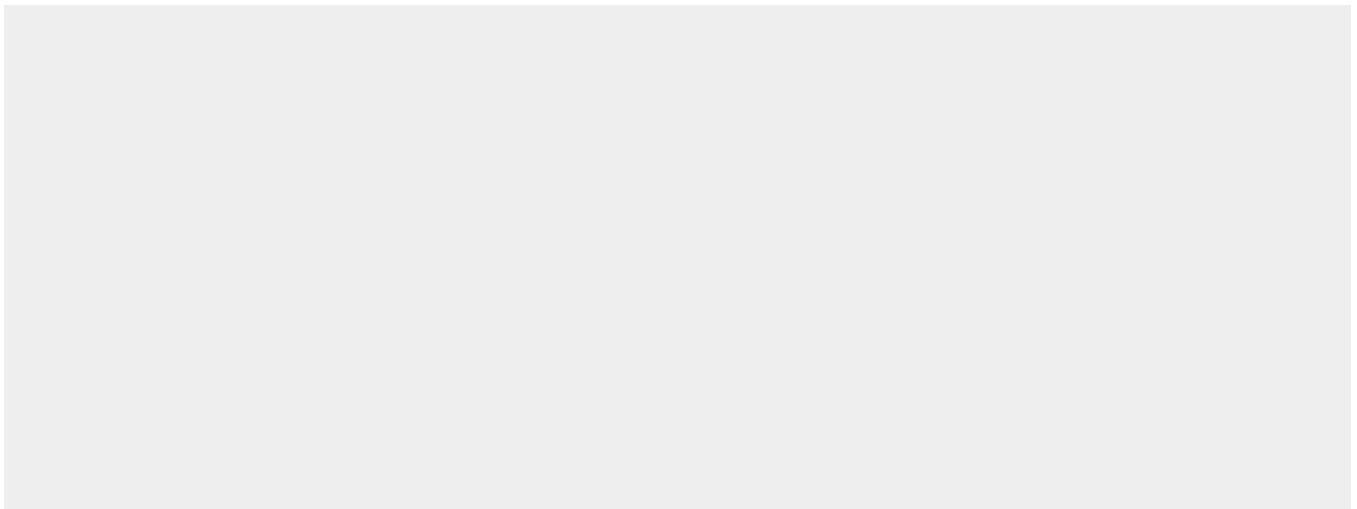
Cytoplasm, cytosol. Nucleus

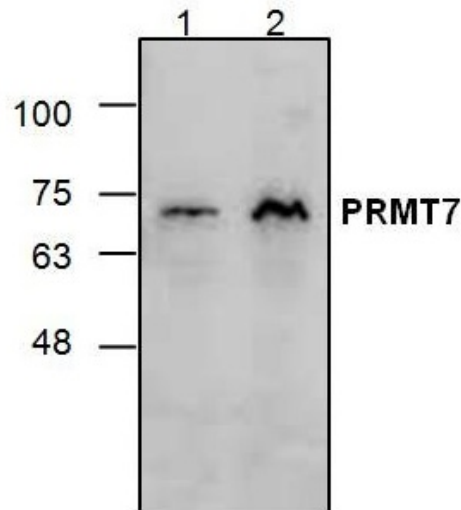
PRMT7 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PRMT7 Antibody - Images





Western blot analysis of PRMT7 using Jurkat cell lysate (Lane 1 & 2)

PRMT7 Antibody - Background

Arginine methylation is an important protein modification catalyzed by arginine methyltransferase such as PRMT7. PRMT7 has two methyltransferase domains each containing a putative AdoMet binding motif. Arginine methylation has been implicated in signal transduction RNA processing and splicing.