

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

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**PRMT7 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9NVM4</a>
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**

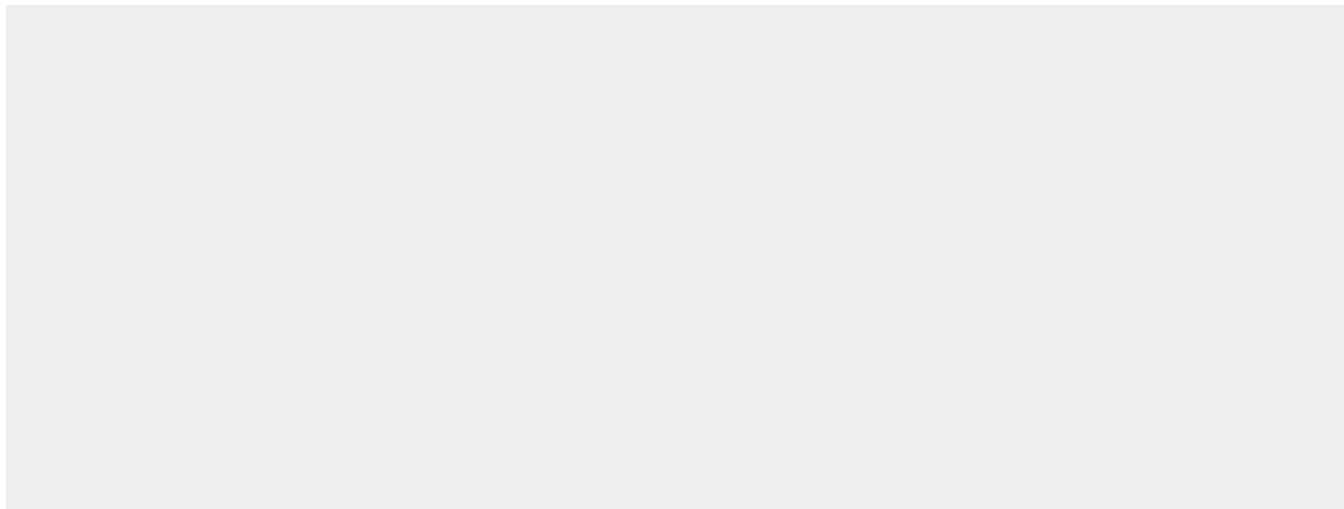
Cytoplasm, cytosol. Nucleus

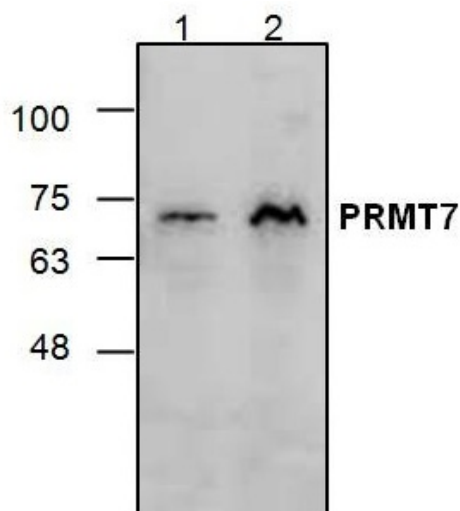
## **PRMT7 Antibody - Protocols**

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 (Lane1 & 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.