

**PRMT6 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3782a

**Specification**

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**PRMT6 Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">O96LA8</a>
Other Accession	<a href="#">NP_060607.2</a> , <a href="#">55170</a> , <a href="#">99890 (mouse)</a> , <a href="#">295384 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	41938

**PRMT6 Antibody (internal region) - Additional Information**

**Gene ID** 55170

**Other Names**

Protein arginine N-methyltransferase 6, 2.1.1.-, Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 6, Histone-arginine N-methyltransferase PRMT6, 2.1.1.125, PRMT6, HRMT1L6

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PRMT6 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**PRMT6 Antibody (internal region) - Protein Information**

**Name** PRMT6

**Synonyms** HRMT1L6

**Function**

Arginine methyltransferase that can catalyze the formation of both omega-N monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA), with a strong preference for the formation of

aDMA (PubMed:<a href="http://www.uniprot.org/citations/17898714" target="\_blank">17898714</a>, PubMed:<a href="http://www.uniprot.org/citations/18077460" target="\_blank">18077460</a>, PubMed:<a href="http://www.uniprot.org/citations/18079182" target="\_blank">18079182</a>, PubMed:<a href="http://www.uniprot.org/citations/19405910" target="\_blank">19405910</a>, PubMed:<a href="http://www.uniprot.org/citations/30420520" target="\_blank">30420520</a>). Preferentially methylates arginyl residues present in a glycine and arginine-rich domain and displays preference for monomethylated substrates (PubMed:<a href="http://www.uniprot.org/citations/17898714" target="\_blank">17898714</a>, PubMed:<a href="http://www.uniprot.org/citations/18077460" target="\_blank">18077460</a>, PubMed:<a href="http://www.uniprot.org/citations/18079182" target="\_blank">18079182</a>, PubMed:<a href="http://www.uniprot.org/citations/19405910" target="\_blank">19405910</a>). Specifically mediates the asymmetric dimethylation of histone H3 'Arg-2' to form H3R2me2a (PubMed:<a href="http://www.uniprot.org/citations/17898714" target="\_blank">17898714</a>, PubMed:<a href="http://www.uniprot.org/citations/18077460" target="\_blank">18077460</a>, PubMed:<a href="http://www.uniprot.org/citations/18079182" target="\_blank">18079182</a>). H3R2me2a represents a specific tag for epigenetic transcriptional repression and is mutually exclusive with methylation on histone H3 'Lys-4' (H3K4me2 and H3K4me3) (PubMed:<a href="http://www.uniprot.org/citations/17898714" target="\_blank">17898714</a>, PubMed:<a href="http://www.uniprot.org/citations/18077460" target="\_blank">18077460</a>). Acts as a transcriptional repressor of various genes such as HOXA2, THBS1 and TP53 (PubMed:<a href="http://www.uniprot.org/citations/19509293" target="\_blank">19509293</a>). Repression of TP53 blocks cellular senescence (By similarity). Also methylates histone H2A and H4 'Arg-3' (H2AR3me and H4R3me, respectively). Acts as a regulator of DNA base excision during DNA repair by mediating the methylation of DNA polymerase beta (POLB), leading to the stimulation of its polymerase activity by enhancing DNA binding and processivity (PubMed:<a href="http://www.uniprot.org/citations/16600869" target="\_blank">16600869</a>). Methylates HMGA1 (PubMed:<a href="http://www.uniprot.org/citations/16157300" target="\_blank">16157300</a>, PubMed:<a href="http://www.uniprot.org/citations/16159886" target="\_blank">16159886</a>). Regulates alternative splicing events. Acts as a transcriptional coactivator of a number of steroid hormone receptors including ESR1, ESR2, PGR and NR3C1. Promotes fasting-induced transcriptional activation of the gluconeogenic program through methylation of the CRTC2 transcription coactivator (By similarity). May play a role in innate immunity against HIV-1 in case of infection by methylating and impairing the function of various HIV-1 proteins such as Tat, Rev and Nucleocapsid protein p7 (NC) (PubMed:<a href="http://www.uniprot.org/citations/17267505" target="\_blank">17267505</a>). Methylates GPS2, protecting GPS2 from ubiquitination and degradation (By similarity). Methylates SIRT7, inhibiting SIRT7 histone deacetylase activity and promoting mitochondria biogenesis (PubMed:<a href="http://www.uniprot.org/citations/30420520" target="\_blank">30420520</a>).

#### Cellular Location

Nucleus.

#### Tissue Location

Highly expressed in kidney and testis.

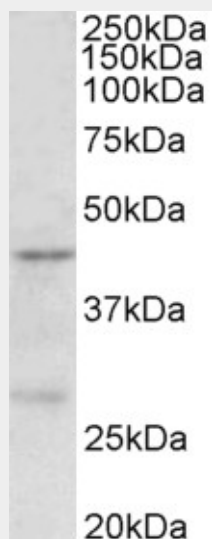
#### PRMT6 Antibody (internal region) - Protocols

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](#)

#### **PRMT6 Antibody (internal region) - Images**



AF3782a (0.5  $\mu\text{g/ml}$ ) staining of MCF7 lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **PRMT6 Antibody (internal region) - References**

Thrombospondin-1 is a transcriptional repression target of PRMT6. Michaud-Levesque J, Richard S. J Biol Chem. 2009 Aug 7;284(32):21338-46. PMID: 19509293