

PRMT6 Blocking Peptide
Catalog # PBV10035b**Specification**

PRMT6 Blocking Peptide - Product Information

Primary Accession	Q96LA8
Gene ID	55170
Calculated MW	41938

PRMT6 Blocking Peptide - Additional Information**Gene ID** 55170**Application & Usage**

The peptide is used for blocking the antibody activity of PRMT6. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

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

Target/Specificity

PRMT6

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

PRMT6 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

PRMT6 Blocking Peptide - 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: [17898714](http://www.uniprot.org/citations/17898714), PubMed: [18077460](http://www.uniprot.org/citations/18077460), PubMed: [18079182](http://www.uniprot.org/citations/18079182), PubMed: [19405910](http://www.uniprot.org/citations/19405910), PubMed: [30420520](http://www.uniprot.org/citations/30420520)). Preferentially methylates arginyl residues present in a glycine and arginine-rich domain and displays preference for monomethylated substrates (PubMed: [17898714](http://www.uniprot.org/citations/17898714), PubMed: [18077460](http://www.uniprot.org/citations/18077460), PubMed: [18079182](http://www.uniprot.org/citations/18079182), PubMed: [19405910](http://www.uniprot.org/citations/19405910), PubMed: [30420520](http://www.uniprot.org/citations/30420520)). Specifically mediates the asymmetric dimethylation of histone H3 'Arg-2' to form H3R2me2a (PubMed: [17898714](http://www.uniprot.org/citations/17898714), PubMed: [18079182](http://www.uniprot.org/citations/18079182), PubMed: [18077460](http://www.uniprot.org/citations/18077460)). H3R2me2a represents a specific tag for epigenetic transcriptional repression and is mutually exclusive with methylation on histone H3 'Lys-4' (H3K4me2 and H3K4me3) (PubMed: [17898714](http://www.uniprot.org/citations/17898714), PubMed: [18077460](http://www.uniprot.org/citations/18077460)). Acts as a transcriptional repressor of various genes such as HOXA2, THBS1 and TP53 (PubMed: [19509293](http://www.uniprot.org/citations/19509293)). 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: [16600869](http://www.uniprot.org/citations/16600869)). Methylates HMGA1 (PubMed: [16157300](http://www.uniprot.org/citations/16157300), PubMed: [16159886](http://www.uniprot.org/citations/16159886)). 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: [17267505](http://www.uniprot.org/citations/17267505)). Methylates GPS2, protecting GPS2 from ubiquitination and degradation (By similarity). Methylates SIRT7, inhibiting SIRT7 histone deacetylase activity and promoting mitochondria biogenesis (PubMed: [30420520](http://www.uniprot.org/citations/30420520)).

Cellular Location

Nucleus.

Tissue Location

Highly expressed in kidney and testis.

PRMT6 Blocking Peptide - 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 Blocking Peptide - Images