

**Product Name: PRMT1 (2C19) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16503**

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## Summary

<b>Production Name</b>	PRMT1 (2C19) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	PRMT1
<b>Alternative Names</b>	Histone-arginine N-methyltransferase PRMT1; ANM1; HCP1; IR1B4; HRMT1L2;
<b>Gene ID</b>	3276.0
<b>SwissProt ID</b>	Q99873.A synthetic peptide of human PRMT1

## Application

<b>Dilution Ratio</b>	WB: 1:1000
<b>Molecular Weight</b>	43kDa

## Background

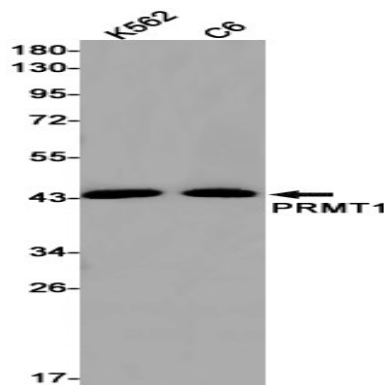
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Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation. Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, ILF3, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15, EWS, HABP4 and SERBP1 (PubMed:<a href="http://www.uniprot.org/citations/10749851" target="\_blank">10749851</a>, PubMed:<a href="http://www.uniprot.org/citations/16879614" target="\_blank">16879614</a>, PubMed:<a href="http://www.uniprot.org/citations/26876602" target="\_blank">26876602</a>). Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation. May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor (ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway. Methylates RBM15, promoting ubiquitination and degradation of RBM15 (PubMed:<a href="http://www.uniprot.org/citations/26575292" target="\_blank">26575292</a>). Methylates FOXO1 and retains it in the nucleus increasing its transcriptional activity. Methylates CHTOP and this methylation is critical for its 5-hydroxymethylcytosine (5hmC)-binding activity (PubMed:<a href="http://www.uniprot.org/citations/25284789" target="\_blank">25284789</a>). Methylates H4R3 in genes involved in glioblastomagenesis in a CHTOP- and/or TET1-dependent manner (PubMed:<a href="http://www.uniprot.org/citations/25284789" target="\_blank">25284789</a>). Plays a role in regulating alternative splicing in the heart (By similarity).

## Research Area

## Image Data



Western blot detection of PRMT1 in K562,C6 cell lysates using PRMT1 antibody(1:1000 diluted).

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**Note**

For research use only.