

产品名称: PRMT1 (2C19) Rabbit Monoclonal Antibody  
产品货号: AMRe16503



## 产品概述 (Summary)

|                        |                                         |
|------------------------|-----------------------------------------|
| 产品名称 (Production Name) | PRMT1 (2C19) Rabbit Monoclonal Antibody |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody  |
| 宿主 (Host)              | Rabbit                                  |
| 应用 (Application)       | WB,IHC,IF-P                             |
| 种属反应性 (Reactivity)     | Human,Mouse                             |

## 产品性能 (Performance)

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                                                |
| 修饰 (Modification)   | Unmodified                                                                                                                  |
| 同种型 (Isotype)       | IgG                                                                                                                         |
| 克隆 (Clonality)      | Monoclonal                                                                                                                  |
| 形式 (Form)           | Liquid                                                                                                                      |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                    |
| 储存溶液 (Buffer)       | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein. |
| 纯化方式 (Purification) | Affinity purification                                                                                                       |

## 免疫原信息 (Immunogen)

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| 基因名 (Gene Name)        | PRMT1                                                                   |
| 别名 (Alternative Names) | Histone-arginine N-methyltransferase PRMT1; ANM1; HCP1; IR1B4; HRMT1L2; |
| 基因 ID (Gene ID)        | 3276.0                                                                  |
| 蛋白 ID (SwissProt ID)   | Q99873.A synthetic peptide of human PRMT1                               |

## 产品应用 (Application)

|                          |                                               |
|--------------------------|-----------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:20-1:100,IF-P 1:20-1:50 |
| 蛋白分子量 (Molecular Weight) | 43kDa                                         |

## 研究背景 (Background)

Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl

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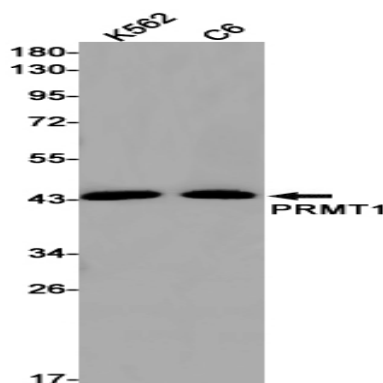


residues present in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional 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).

## 研究领域 (Research Area)

Cell Biology

## 图片 (Image Data)



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

## 注意事项 (Note)

For research use only .

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