

anti-Human, Mouse PRMT1 Monoclonal Antibody | anti-PRMT1 antibody

PRMT1 Rabbit mAb

CATALOG # AAA314443	HOST Recombinant Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Immunohistochemistry, Western Blot
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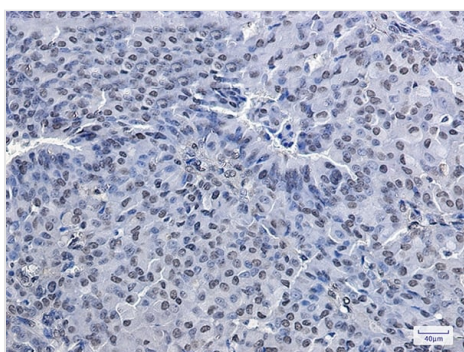
PRODUCT SYNONYMS

PRMT1; Monoclonal Antibody; PRMT1 Rabbit mAb; ANM1; HCP1; IR1B4; HRMT1L2; anti-PRMT1 antibody

PRODUCT SPECIFICATIONS

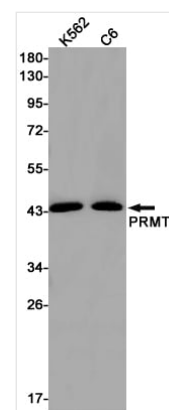
Host	Recombinant Rabbit
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	S08-3H8
Purity/Purification	Affinity Purified
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration	0.3mg/ml (varies by lot)
Applicable Applications for anti-PRMT1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human PRMT1
Conjugation	Unconjugated
Modification	Unmodification
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of PRMT1 in paraffin-embedded Human breast cancer tissue using PRMT1 Rabbit mAb at dilution 1/20



WB (Western Blot)

Western blot detection of PRMT1 in K562,C6 cell lysates using PRMT1 Rabbit mAb(1:1000 diluted).Predicted band size:43kDa.Observed band size:43kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRMT1 antibody	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, EWS, HABP4 and SERBP1 (PubMed:16879614, PubMed:26876602). 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. Together with dimethylated PIAS1, represses STAT1 transcriptional activity, in the late phase of interferon gamma (IFN-gamma) signaling. 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:26575292). 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:25284789). Methylates H4R3 in genes involved in glioblastomagenesis in a CHTOP- and/or TET1-dependent manner (PubMed:25284789).
Product Categories/Family for anti-PRMT1 antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	161789011
NCBI GeneID	3276
UniProt Accession #	Q99873; Q15529; Q2VP93; Q6LEU5; Q8WUW5; Q99872; Q99874; Q9NZ04; Q9NZ05; Q9NZ06; B4E3C3; G5E9B6
Molecular Weight	361
NCBI Official Full Name	Protein arginine N-methyltransferase 1
NCBI Official Synonym Full Names	protein arginine methyltransferase 1
NCBI Official Symbol	PRMT1
NCBI Official Synonym Symbols	ANM1; HCP1; IR1B4; HRMT1L2
NCBI Protein Information	protein arginine N-methyltransferase 1; interferon receptor 1-bound protein 4; histone-arginine N-methyltransferase PRMT1; HMT1 (hnRNP methyltransferase, S. cerevisiae)-like 2; heterogeneous nuclear ribonucleoprotein methyltransferase 1-like 2
UniProt Protein Name	Protein arginine N-methyltransferase 1
UniProt Gene Name	PRMT1
UniProt Synonym Gene Names	HMT2; HRMT1L2; IR1B4
UniProt Entry Name	ANM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/prmt1-antibody-clone-s08-3h8-immunohistochemistry-western-blot-elisa/314443>