

Datasheet for ABIN7165062

anti-PRMT1 antibody (AA 1-248) (HRP)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	PRMT1
Binding Specificity:	AA 1-248
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRMT1 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Protein arginine N-methyltransferase 1 protein (1-248AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PRMT1
Alternative Name:	PRMT1 (PRMT1 Products)
Background:	Background: 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).

Aliases: ANM 1 antibody, ANM1 antibody, ANM1_HUMAN antibody, HCP 1 antibody, HCP1 antibody, Heterogeneous nuclear ribonucleoprotein methyltransferase 1 like 2 antibody, Heterogeneous nuclear ribonucleoproteins methyltransferase like 2 antibody, Heterogeneous nuclear ribonucleoproteins methyltransferase like2 antibody, Histone-arginine N-methyltransferase PRMT1 antibody, HMT 2 antibody, HMT1 (hnRNP methyltransferase S. cerevisiae) like 2 antibody, HMT1 hnRNP methyltransferase antibody, HMT1 hnRNP methyltransferase like 2 (S. cerevisiae) antibody, HMT1 hnRNP methyltransferase like 2 antibody, HMT2 antibody, HRMT1 L2 antibody, HRMT1L 2 antibody, HRMT1L2 antibody, Human mRNA for suppressor for yeast mutant antibody, Human mRNA for suppressor for yeast mutant complete cds antibody, Interferon receptor 1 bound protein 4 antibody, Interferon receptor 1 bound protein4 antibody, Interferon receptor 1-bound protein 4 antibody, Interferon receptor 1bound protein 4 antibody, IR1 B4 antibody, IR1B 4 antibody, IR1B4 antibody, Mrmt 1 antibody, Mrmt1 antibody, PRMT 1 antibody, PRMT1 antibody, Protein arginine methyltransferase 1 antibody, Protein arginine N methyltransferase 1 antibody, Protein arginine N methyltransferase1 antibody, Protein arginine N-methyltransferase 1 antibody, R1B4 antibody, S. cerevisiae like 2 antibody

UniProt: [Q99873](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.