

Datasheet for ABIN7165056
anti-PRMT1 antibody (AA 1-248)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	PRMT1
Binding Specificity:	AA 1-248
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PRMT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Protein arginine N-methyltransferase 1 protein (1-248AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
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

Target Details

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

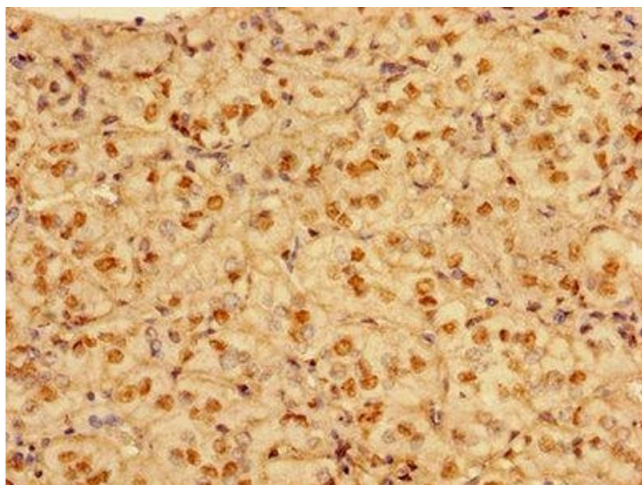
Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

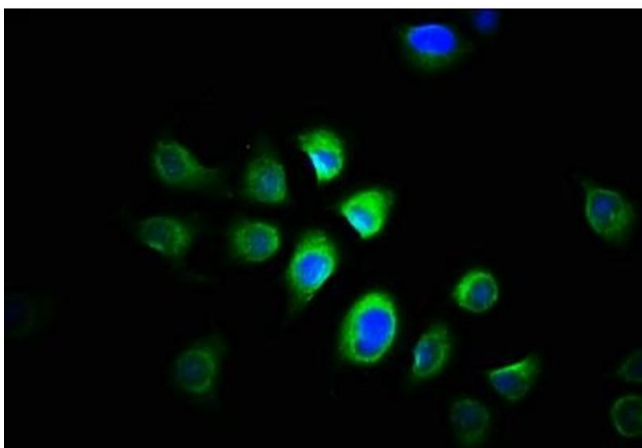
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon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

Images



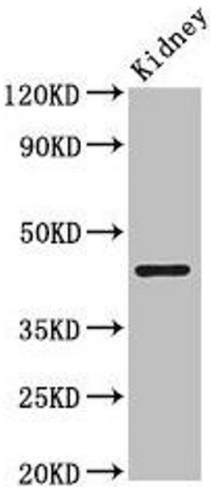
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human adrenal gland tissue using ABIN7165056 at dilution of 1:100



Immunofluorescence

Image 2. Immunofluorescence staining of A549 cells with ABIN7165056 at 1:166, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Western Blotting

Image 3. Western Blot Positive WB detected in: Mouse kidney tissue All lanes: PRMT1 antibody at 2.5 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 43, 40, 41, 33 kDa Observed band size: 43 kDa