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PRMT1 (N) Antibody, Rabbit Polyclonal

Cat#: R0065-1

Quantity: 100 ul

Predicted M.W.: 42 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q99873

Background:

Protein arginine methyltransferase 1 (PRMT1) is an 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. PRMT1 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, PRMT1 represses STAT1 transcriptional activity in the late phase of interferon gamma (IFN-gamma) signaling. PRMT1 may also be involved in the regulation of transcriptional activities of TAF15 and estrogen receptor (ER). IN addition, PRMT1 can act as a negative regulator of megakaryocytic differentiation by modulating p38 MAPK pathway.

Other Names:

ANM1, HCP1, HRMT1L2, IR1B4

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human PRMT1. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:5,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

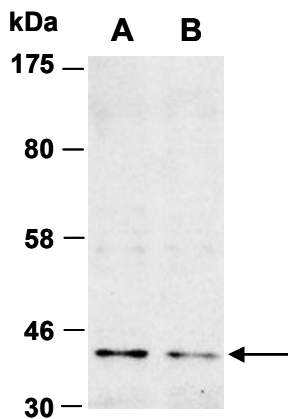


Fig 1. Western blot of total cell extracts from (A) human Jurkat, (B) human A549, using Ab (R0065-1) at RT for 2 h.