

PRMT6 monoclonal antibody

Catalog: MB0049

Host: Mouse

Reactivity: Human

BackGround:

Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA), with a strong preference for the formation of aDMA. Preferentially methylates arginyl residues present in a glycine and arginine-rich domain and displays preference for monomethylated substrates. Specifically mediates the asymmetric dimethylation of histone H3 'Arg-2' to form H3R2me2a. H3R2me2a represents a specific tag for epigenetic transcriptional repression and is mutually exclusive with methylation on histone H3 'Lys-4' (H3K4me2 and H3K4me3). It thereby acts as a transcription corepressor of various genes such as HOXA2. Also methylates histone H2A and H4 'Arg-3' (H2AR3me and H4R3me, respectively). Acts as a regulator of DNA base excision during DNA repair by mediating the methylation of DNA polymerase beta (POLB), leading to stimulate the polymerase activity by enhancing DNA binding and processivity. Methylates HMGA1. May play a role in innate immunity against HIV-1 in case of infection by methylating and impairing the function of various HIV-1 proteins such as Tat, Rev and Nucleocapsid protein p7 (NC).

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

Predicted band size:42KDa

Observed band size:42KDa

Swiss-Prot:

Q96LA8

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:1000

ICC: 1:300

IHC: 1:200

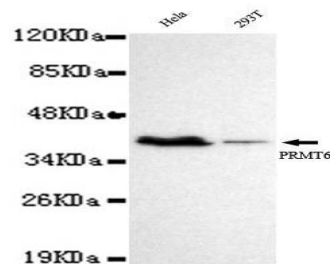
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

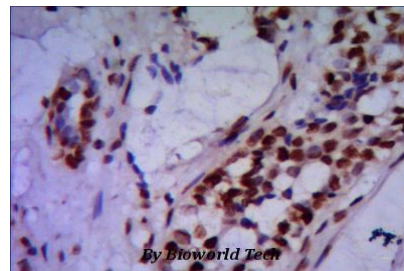
Specificity:

PRMT6 mAb detects endogenous levels of PRMT6 and does not cross-react with related proteins

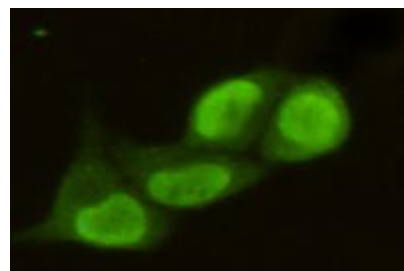
DATA:



Western blot detection of PRMT6 in HeLa&293T cell lysates using PRMT6 antibody (1:1000 diluted).



Immunohistochemistry stain of paraffin-embedded human breast cancer using PRMT6 antibody (1:200).



Immunocytochemistry stain of HeLa using PRMT6 antibody (1:300).

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PRODUCT DATA SHEET

Bioworld Technology, Inc.

Note:

For research use only, not for use in diagnostic procedure.

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