

PRMT6 monoclonal antibody

Catalog: MB66485

Host: Mouse

Reactivity: Human

BackGround:

Protein arginine N-methyltransferase 6 (PRMT6) is a member of the protein arginine N-methyltransferase (PRMT) family of proteins that catalyze the transfer of a methyl group from S-adenosylmethionine (AdoMet) to a guanidine nitrogen of arginine. The three types of PRMTs share the ability to mono-methylate arginine residues, but vary in their ability to generate differential methylation states. Mono-methylated arginine residues are further methylated by type I PRMTs to generate an asymmetric di-methyl arginine or by type II PRMTs to form a symmetric-dimethyl arginine. Type III methyltransferases are only able to mono-methylate arginine residues. PRMT6 is a type I PRMT that acts as both a transcriptional coactivator and a corepressor and catalyzes the asymmetric di-methylation of histone H3 (Arg 2, Arg42), histone H4 (Arg3), and histone H2A at Arg29. PRMT6 acts as a coactivator for transcription factors, including estrogen receptor and NFκB, while asymmetric di-methylation of histone H3 (Arg2) by PRMT6 prevents MLL methylation of histone H3 at Lys4 and inhibits transcription activation. In addition to its role in regulating transcription, PRMT6 methylates DNA polymerase β, leading to enhanced DNA binding and processivity during base excision repair of damaged DNA.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 42 kDa

Swiss-Prot:

Q96LA8

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/ICC (1/50 - 1/100)

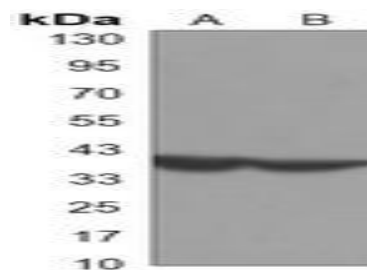
Storage&Stability:

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

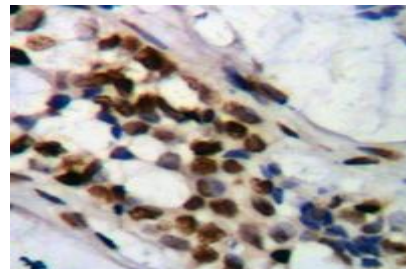
Specificity:

Recognizes endogenous levels of PRMT6 protein.

DATA:



Western blot analysis of PRMT6 expression in HeLa (A), 293T (B) whole cell lysates.



Immunohistochemical analysis of PRMT6 staining in human breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.29). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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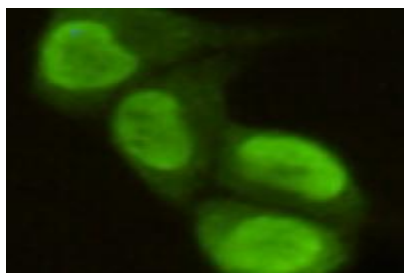
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Immunofluorescent analysis of PRMT6 staining in HeLa cells. Forma-

lin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

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

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