



## PRMT6 mouse mAb

<b>Catalog No</b>	YP-Ab-03448
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	WB;IHC;ICC
<b>Gene Name</b>	prmt6
<b>Protein Name</b>	
<b>Immunogen</b>	Purified recombinant human PRMT6 protein fragments expressed in E.coli.
<b>Specificity</b>	This antibody detects endogenous levels of PRMT6 and does not cross-react with related proteins.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	wb 1:1000 icc 1:300
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ANM6_HUMAN;Chromobox protein homolog 7;FLJ10559;FLJ51477;Heterogeneous nuclear ribonucleoprotein methyltransferase like protein 6;Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 6;Histone-arginine N-methyltransferase PRMT6;HMT1 hnRNP methyltransferase like 6.;HRMT1L6;OTTHUMP00000012633;PRMT 6;prmt6; Protein arginine methyltransferase 6;Protein arginine N methyltransferase 6;Protein arginine N-methyltransferase 6.
<b>Observed Band</b>	42kD
<b>Cell Pathway</b>	Nucleus .
<b>Tissue Specificity</b>	Highly expressed in kidney and testis.
<b>Function</b>	catalytic activity:S-adenosyl-L-methionine + histone-arginine = S-adenosyl-L-homocysteine + histone-N(omega)-methyl-arginine.,function: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 reg

**Background**

The protein encoded by this gene belongs to the arginine N-methyltransferase family, which catalyze the sequential transfer of methyl group from S-adenosyl-L-methionine to the side chain nitrogens of arginine residues within proteins, to form methylated arginine derivatives and S-adenosyl-L-homocysteine. This protein can catalyze both, the formation of omega-N monomethylarginine and asymmetrical dimethylarginine, with a strong preference for the latter. It specifically mediates the asymmetric dimethylation of Arg2 of histone H3, and the methylated form represents a specific tag for epigenetic transcriptional repression. This protein also forms a complex with, and methylates DNA polymerase beta, resulting in stimulation of polymerase activity by enhancing DNA binding and processivity. [provided by RefSeq, Sep 2011],

**matters needing attention**

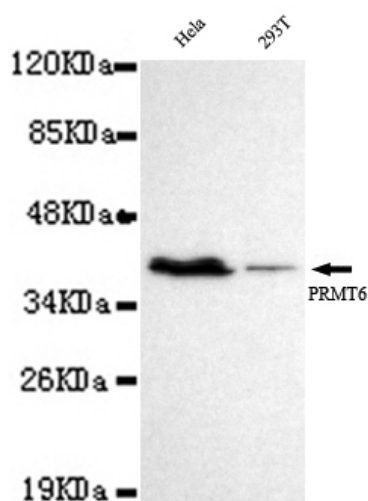
Avoid repeated freezing and thawing!

**Usage suggestions**

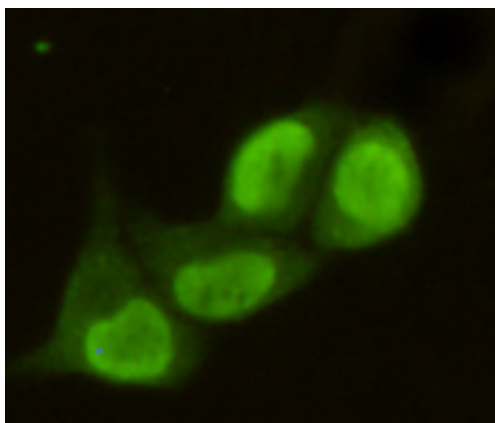
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



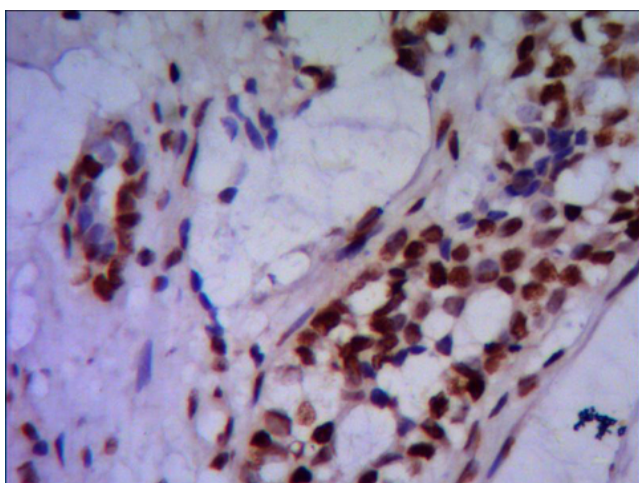
## Products Images



Western blot detection of PRMT6 in HeLa and 293T cell lysates using PRMT6 mouse mAb (1:1000 diluted). Predicted band size: 42KDa. Observed band size: 42KDa.



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



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