

PRMT6 antibody

Product Information

Catalog No.:	FNab06792
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

Arginine methyltransferase that can catalyze the formation of both 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). Acts as a transcriptional repressor of various genes such as HOXA2, THBS1 and TP53. Repression of TP53 blocks cellular senescence(By similarity). 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 the stimulation of its polymerase activity by enhancing DNA binding and processivity. Methylates HMGA1. Regulates alternative splicing events. Acts as a transcriptional coactivator of a number of steroid hormone receptors including ESR1, ESR2, PGR and NR3C1. Promotes fasting-induced transcriptional activation of the gluconeogenic program through methylation of the CRTC2 transcription coactivator. 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).

Immunogen information

Immunogen:	protein arginine methyltransferase 6
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Synonyms:	Protein arginine N-methyltransferase 6 Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 6 Histone-arginine N-methyltransferase PRMT6 PRMT6 HRMT1L6
Observed MW:	42 kDa
Uniprot ID :	Q96LA8

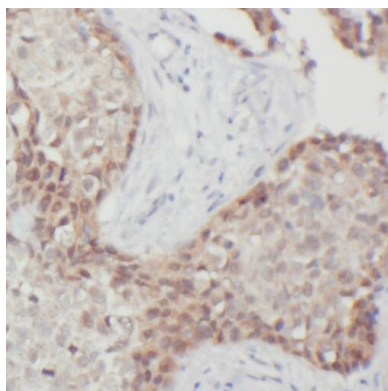
Application

Reactivity: Human

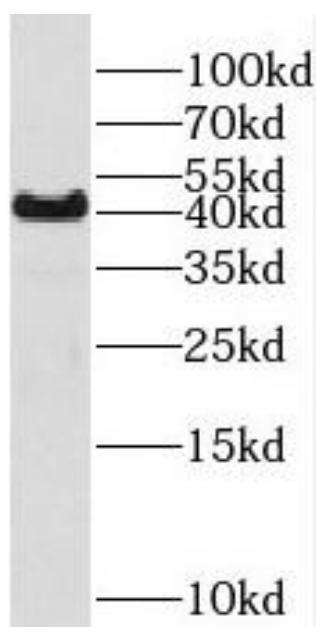
Tested Application: ELISA, WB, IHC

Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded human breast cancer using FNab06792(PRMT6 antibody) at dilution of 1:100



human brain tissue were subjected to SDS PAGE followed by western blot with FNab06792(PRMT6 antibody) at dilution of 1:500