

PRMT3 Rabbit mAb

Catalog # AP75952

Product Information

Application	WB, IHC-P, IP
Primary Accession	O60678
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	59903

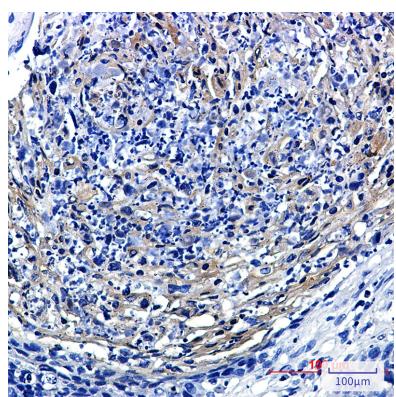
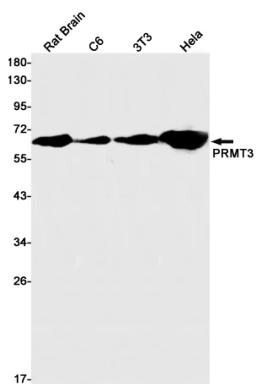
Additional Information

Gene ID	10196
Other Names	PRMT3
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	PRMT3 (HGNC:30163)
Function	Protein-arginine N-methyltransferase that catalyzes both the monomethylation and asymmetric dimethylation of the guanidino nitrogens of arginine residues in target proteins, and therefore falls into the group of type I methyltransferases (PubMed: 22795084 , PubMed: 23445220 , PubMed: 25728001 , PubMed: 31378783 , PubMed: 33495566 , PubMed: 39513743). Catalyzes the asymmetric arginine dimethylation at multiple sites in the Arg/Gly-rich region of small ribosomal subunit protein uS5/RPS2 (PubMed: 22795084). Also appears to methylate other ribosomal proteins (By similarity). May regulate retinoic acid synthesis and signaling by inhibiting ALDH1A1 retinal dehydrogenase activity (PubMed: 33495566). Contributes to methylation of histone H4 'Arg-3', a specific tag for epigenetic transcriptional activation (PubMed: 25728001 , PubMed: 31378783 , PubMed: 39513743). Mediates asymmetric arginine dimethylation of histone H4 'Arg-3' (H4R3me2a) in the promoter region of miRNA miR-3648, to promote its transcription and osteogenesis (PubMed: 31378783).
Cellular Location	Cytoplasm, cytosol. Nucleus Note=Localized to the nucleus by ZNF200.

Images



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