10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PRMT3 Rabbit mAb

Catalog # AP75952

Product Information

Application	WB, IHC-P, IP
Primary Accession	O60678
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	59903

Additional Information

Gene ID	10196
Other Names	PRMT3
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A IP~~1:20-1:50
Format	Liquid in 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

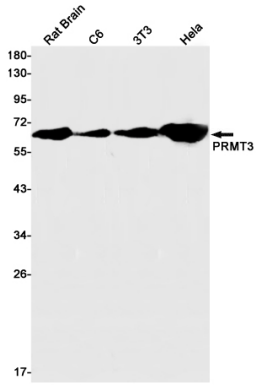
Name	PRMT3 (HGNC:30163)
Function	Protein-arginine N-methyltransferase that catalyzes both the monomethylation and asymmetric dimethylation of the guanidino nitrogens of arginine residues in target proteins, and therefore falls into the group of type I methyltransferases (PubMed:22795084, PubMed:23445220, 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.

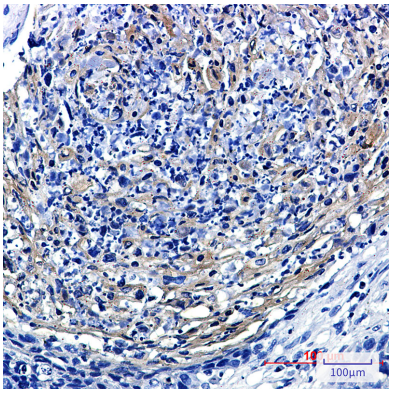
Background

Methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues in some proteins.

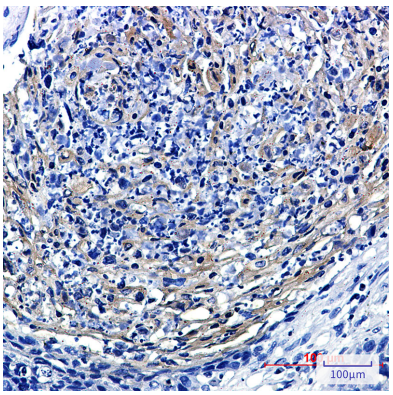
Images

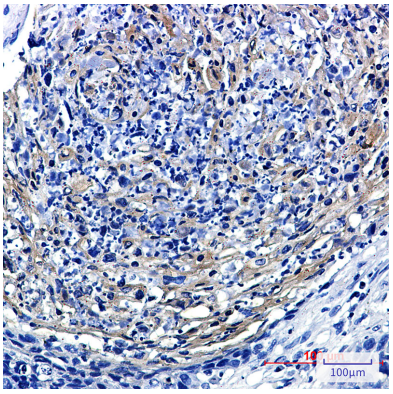


Western blot analysis of PRMT3 in rat Brain, C6, 3T3, Hela lysates using PRMT3 antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using PRMT3 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.





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