

# PRMT3 Rabbit mAb

Catalog # AP75952

## Product Information

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Application	WB, IHC-P, IP
Primary Accession	<a href="#">O60678</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	59903

## Additional Information

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Gene ID	10196
Other Names	PRMT3
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A
Format	Liquid

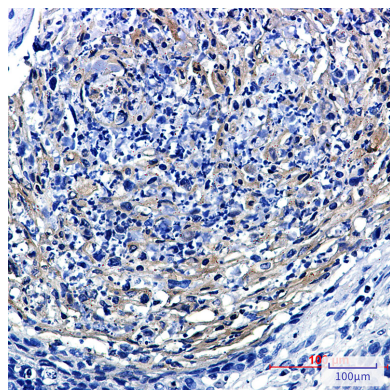
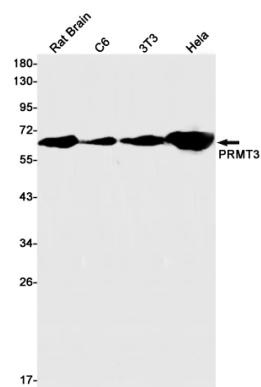
## Protein Information

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Name	PRMT3 ( <a href="#">HGNC:30163</a> )
Function	<p>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:<a href="#">22795084</a>, PubMed:<a href="#">23445220</a>, PubMed:<a href="#">25728001</a>, PubMed:<a href="#">31378783</a>, PubMed:<a href="#">33495566</a>, PubMed:<a href="#">39513743</a>). Catalyzes the asymmetric arginine dimethylation at multiple sites in the Arg/Gly-rich region of small ribosomal subunit protein uS5/RPS2 (PubMed:<a href="#">22795084</a>). Also appears to methylate other ribosomal proteins (By similarity). May regulate retinoic acid synthesis and signaling by inhibiting ALDH1A1 retinal dehydrogenase activity (PubMed:<a href="#">33495566</a>). Contributes to methylation of histone H4 'Arg-3', a specific tag for epigenetic transcriptional activation (PubMed:<a href="#">25728001</a>, PubMed:<a href="#">31378783</a>, PubMed:<a href="#">39513743</a>). 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:<a href="#">31378783</a>).</p>
Cellular Location	Cytoplasm, cytosol. Nucleus Note=Localized to the nucleus by ZNF200.

## Images

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