

# PRMT3 Rabbit mAb

Catalog # AP75952

## Product Information

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<b>Application</b>	WB, IHC-P, IP
<b>Primary Accession</b>	<a href="#">O60678</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	59903

## Additional Information

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<b>Gene ID</b>	10196
<b>Other Names</b>	PRMT3
<b>Dilution</b>	WB~~1:1000-1:5000 IHC-P~~N/A IP~~1:20-1:50
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	PRMT3 ( <a href="#">HGNC:30163</a> )
<b>Function</b>	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> ).

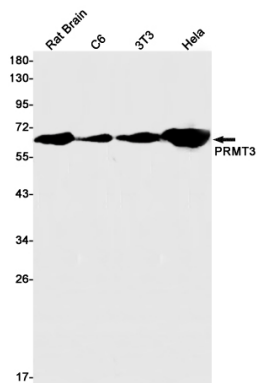
## Cellular Location

Cytoplasm, cytosol. Nucleus Note=Localized to the nucleus by ZNF200.

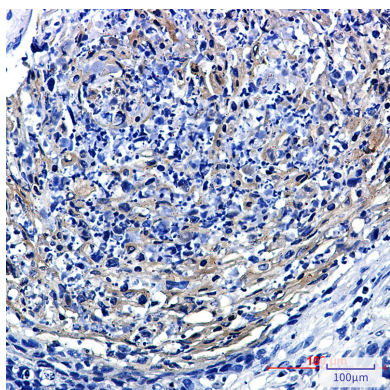
## Background

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

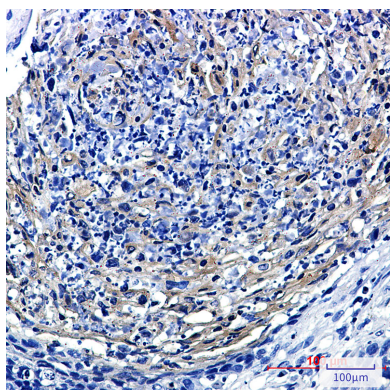
## Images

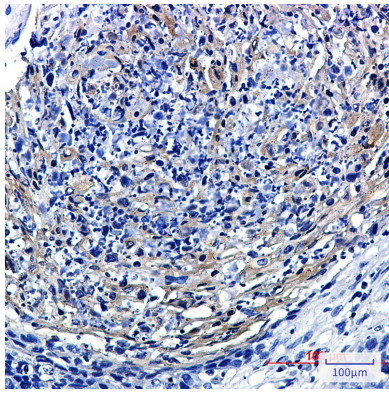


Western blot analysis of PRMT3 in rat Brain, C6, 3T3, HeLa lysates using PRMT3 antibody.



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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