

KD-Validated Anti-PRMT3 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2262**Specification****KD-Validated Anti-PRMT3 Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	O60678
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 60 kDa; observed, 68 kDa kDa
Gene Name	PRMT3
Aliases	PRMT3; Protein Arginine Methyltransferase 3; HRMT1L3; Heterogeneous Nuclear Ribonucleoprotein Methyltransferase-Like Protein 3; Protein Arginine N-Methyltransferase 3; HMT1 HnRNP Methyltransferase-Like 3 (S. Cerevisiae); HMT1 HnRNP Methyltransferase-Like 3; EC 2.1.1.319; EC 2.1.1
Immunogen	A synthesized peptide derived from human PRMT3

KD-Validated Anti-PRMT3 Rabbit Monoclonal Antibody - Additional Information

Gene ID	10196
Other Names	
Protein arginine N-methyltransferase 3, 2.1.1.319, Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 3 {ECO:0000312 HGNC:HGNC:30163}, PRMT3 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=30163)	

KD-Validated Anti-PRMT3 Rabbit Monoclonal Antibody - 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](http://www.uniprot.org/citations/22795084), PubMed:[23445220](http://www.uniprot.org/citations/23445220), PubMed:[25728001](http://www.uniprot.org/citations/25728001), PubMed:[31378783](http://www.uniprot.org/citations/31378783), PubMed:[33495566](http://www.uniprot.org/citations/33495566), PubMed:[39513743](http://www.uniprot.org/citations/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

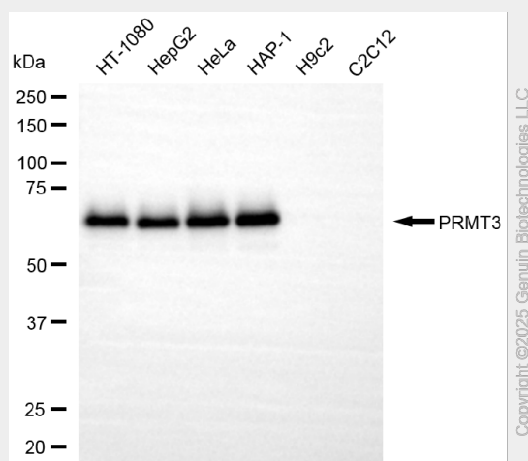
Cytoplasm, cytosol. Nucleus Note=Localized to the nucleus by ZNF200.

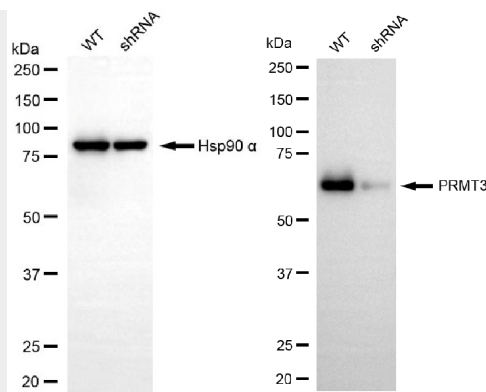
KD-Validated Anti-PRMT3 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-PRMT3 Rabbit Monoclonal Antibody - Images





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Western blotting analysis using anti-PRMT3 antibody (Cat#AGI2262). PRMT3 expression in wild-type (WT) and PRMT3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PRMT3 antibody (Cat#AGI2262, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.