

PRMT3 (aa468-421) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3780a**Specification**

PRMT3 (aa468-421) Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	O60678
Other Accession	NP_005779.1 , NP_001138638.1 , NP_001138639.1 , 10196
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	59903

PRMT3 (aa468-421) Antibody (internal region) - Additional Information**Gene ID** 10196**Other Names**

Protein arginine N-methyltransferase 3, 2.1.1.-, Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 3, PRMT3, HRMT1L3

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PRMT3 (aa468-421) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PRMT3 (aa468-421) Antibody (internal region) - 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).

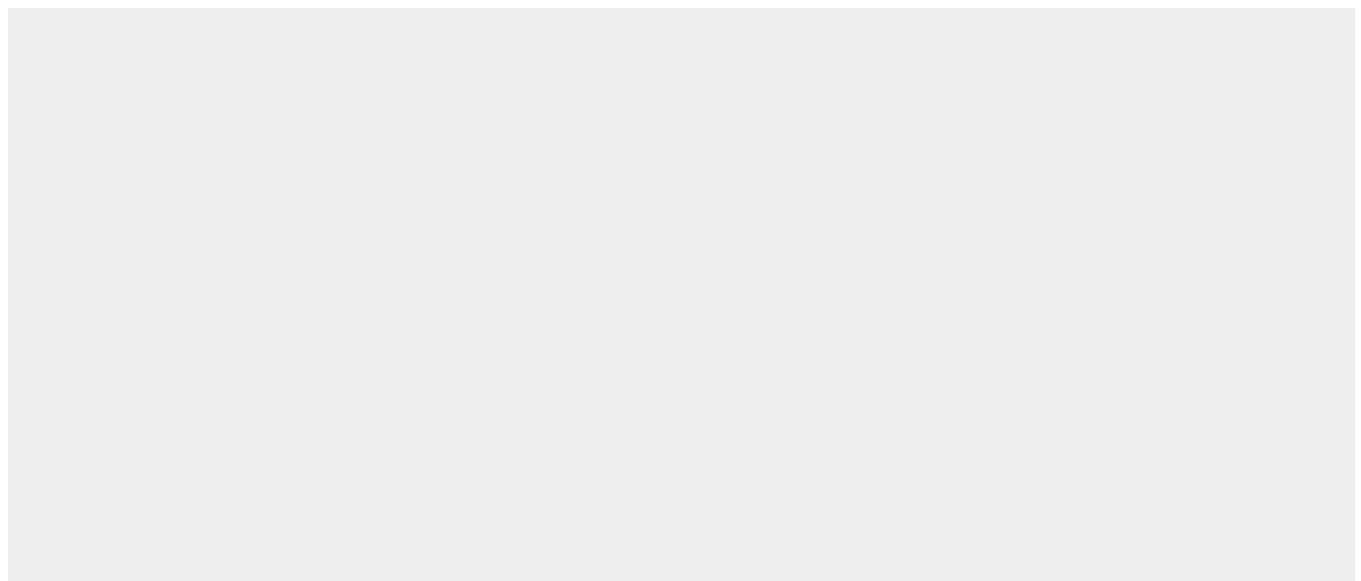
Cellular Location

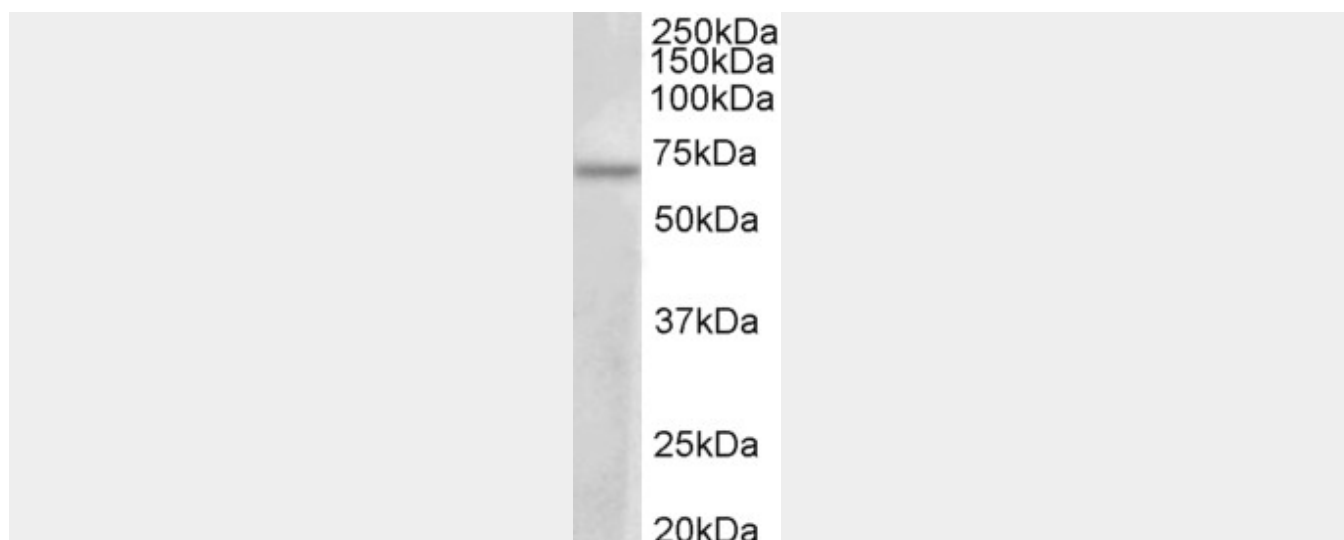
Cytoplasm, cytosol. Nucleus Note=Localized to the nucleus by ZNF200.

PRMT3 (aa468-421) Antibody (internal region) - 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](#)

PRMT3 (aa468-421) Antibody (internal region) - Images



AF3780a (1 µg/ml) staining of MCF7 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

PRMT3 (aa468-421) Antibody (internal region) - Background

This antibody is expected to recognize all reported isoforms (NP_005779.1; NP_001138638.1; NP_001138639.1).

PRMT3 (aa468-421) Antibody (internal region) - References

Type I Arginine Methyltransferases PRMT1 and PRMT-3 Act Distributively. Kölbel K, Ihling C, Bellmann-Sickert K, Neundorff I, Beck-Sickinger AG, Sinz A, Kühn U, Wahle E. J Biol Chem. 2009 Mar 27;284(13):8274-82. PMID: 19158082