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PRMT7 Antibody (internal region)

Peptide-affinity purified goat antibody

Catalog # AF3783a

Specification

PRMT7 Antibody (internal region) - Product Information

Application	**WB, E**
Primary Accession	Q9NVM4
Other Accession	NP_061896.1, NP_001171753.1, 54496, 214572 (mouse), 361402 (rat)
Reactivity	**Human, Mouse**
Predicted	**Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**78459**

PRMT7 Antibody (internal region) - Additional Information

Gene ID 54496

Other Names
Protein arginine N-methyltransferase 7, 2.1.1.-, Histone-arginine N-methyltransferase PRMT7, 2.1.1.125, [Myelin basic protein]-arginine N-methyltransferase PRMT7, 2.1.1.126, PRMT7, KIAA1933

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
PRMT7 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PRMT7 Antibody (internal region) - Protein Information

Name PRMT7

Synonyms KIAA1933

Function
Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3); such methylation being required for the assembly and biogenesis of snRNP core particles. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro; the relevance of such results is however unclear in vivo.

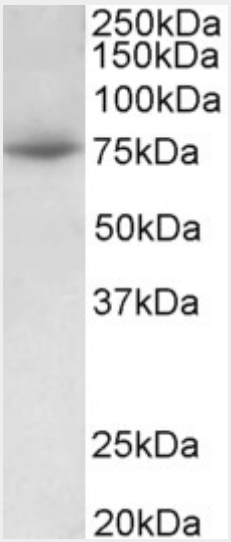
Cellular Location
Cytoplasm, cytosol. Nucleus

PRMT7 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 Cytomety
- Cell Culture

PRMT7 Antibody (internal region) - Images



AF3783a (0.3 µg/ml) staining of HeLa lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

PRMT7 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_061896.1; NP_001171753.1).

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PRMT7 Antibody (internal region) - References

PRMT7, a new protein arginine methyltransferase that synthesizes symmetric dimethylarginine. Lee JH, Cook JR, Yang ZH, Mirochnitchenko O, Gunderson SI, Felix AM, Herth N, Hoffmann R, Pestka S. J Biol Chem. 2005 Feb 4;280(5):3656-64. PMID: 15494416