# PRMT7 Antibody (internal region) <br> Peptide-affinity purified goat antibody <br> Catalog \# AF3783a 

## Specification

PRMT7 Antibody (internal region) - Product Information

Application<br>Primary Accession<br>Other Accession<br>Reactivity<br>Predicted<br>Host<br>Clonality<br>Concentration<br>Isotype<br>Calculated MW<br>\section*{WB}<br>Q9NVM4<br>NP 061896.1, NP 001171753.1, 54496, 214572<br>(mouse), 361402 (rat)<br>Human, Mouse<br>Rat, Dog<br>Goat<br>Polyclonal<br>$0.5 \mathrm{mg} / \mathrm{ml}$<br>IgG<br>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

Format
$0.5 \mathrm{mg} / \mathrm{ml}$ in Tris saline, $0.02 \%$ sodium azide, pH 7.3 with $0.5 \%$ bovine serum albumin

## Storage

Maintain refrigerated at $2-8^{\circ} \mathrm{C}$ for up to 6 months. For long term storage store at $-20^{\circ} \mathrm{C}$ 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 H 19 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


PRMT7 Antibody (internal region) - Background
This antibody is expected to recognize both reported isoforms (NP_061896.1; NP_001171753.1).
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

