

PRMT7 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1010c**Specification**

PRMT7 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q9NVM4
Other Accession	NP_061896
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	78459
Antigen Region	660-692

PRMT7 Antibody (C-term) - Additional Information**Gene ID** 54496**Other Names**

Protein arginine N-methyltransferase 7, 211-, Histone-arginine N-methyltransferase PRMT7, [Myelin basic protein]-arginine N-methyltransferase PRMT7, PRMT7, KIAA1933

Target/Specificity

This PRMT7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 660-692 amino acids from the C-terminal region of human PRMT7.

Dilution

WB~~1:1000

IHC-P~~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

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

Precautions

PRMT7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PRMT7 Antibody (C-term) - 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.

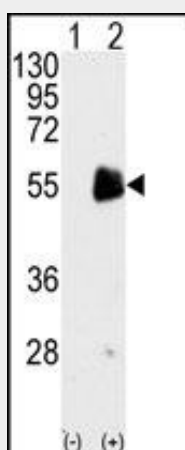
Cellular Location

Cytoplasm, cytosol. Nucleus

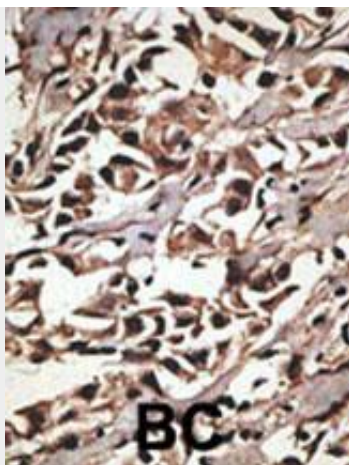
PRMT7 Antibody (C-term) - Protocols

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](#)

PRMT7 Antibody (C-term) - Images

Western blot analysis of PRMT7 (arrow) using rabbit polyclonal PRMT7 Antibody (C-term) (Cat.#AP1010c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRMT7 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

PRMT7 Antibody (C-term) - Background

Arginine methylation is an irreversible post translational modification which has only recently been linked to protein activity. At least three types of PRMT enzymes have been identified in mammalian cells. These enzymes have been shown to have essential regulatory functions by methylation of key proteins in several fundamental areas. These protein include nuclear proteins, IL enhancer binding factor, nuclear factors, cell cycle proteins, signal transduction proteins, apoptosis proteins, and viral proteins. The mammalian PRMT family currently consists of 7 members that share two large domains of homology. Outside of these domains, epitopes were identified and antibodies against all 7 PRMT members have been developed.

PRMT7 Antibody (C-term) - References

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Frankel A., et al. J. Biol. Chem. 277:3537-3543(2002).
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