10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PRMT3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1005a

Specification

PRMT3 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q60678
Other Accession	Q922H1
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**59903**
Antigen Region	**460-491**

PRMT3 Antibody (C-term) - Additional Information

Gene ID 10196

Other Names
Protein arginine N-methyltransferase 3, 211-, Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 3, PRMT3, HRMT1L3

Target/Specificity
This PRMT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 460-491 amino acids from the C-terminal region of human PRMT3.

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
PRMT3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PRMT3 Antibody (C-term) - 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 (Probable). May regulate retinoic acid synthesis and signaling by inhibiting ALDH1A1 retinal dehydrogenase activity (PubMed:33495566).

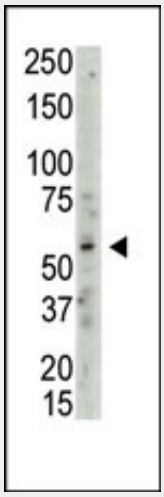
Cellular Location
Cytoplasm.

PRMT3 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 Cytomety
- Cell Culture

PRMT3 Antibody (C-term) - Images



Western blot analysis of anti-PRMT3 Pab (Cat. #AP1005a)in whole HL60 cell lysate: PRMT3 (Arrow) was detected using purified Pab (Lane B) but not pre-immune serum (lane A). Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

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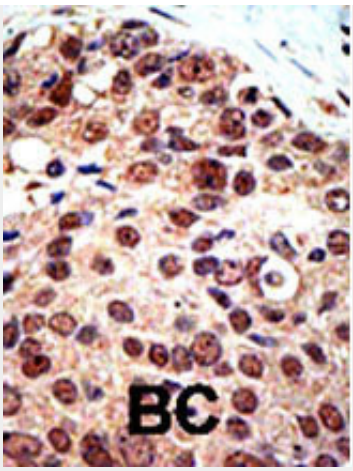
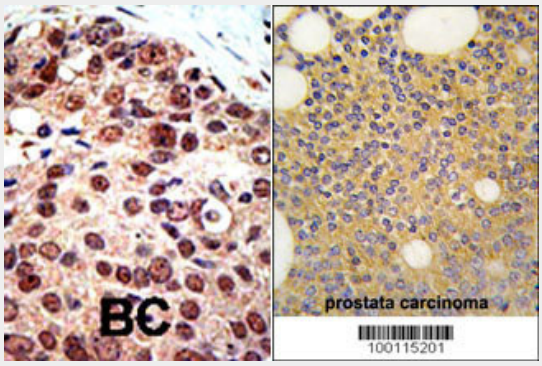


Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast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



Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with PRMT3 Antibody (C-term) (Cat.#AP1005a), 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.

PRMT3 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.