For Research Use Only

PRMT1 Polyclonal antibody

Catalog Number:11279-1-AP Featured Product 8 Publications

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Basic Information

Catalog Number:
11279-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1790

GenBank Accession Number:
BC019268

GeneID (NCBI):
3276

UNIPROT ID:
Q99873

Full Name:
protein arginine methyltransferase 1

Calculated MW:
42 kDa

Observed MW:
40-42 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
WB,IP,IHC,IF/ICC,FC,ELISA

Cited Applications:
WB, IP, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, mouse brain tissue, MCF-7 cells, HeLa cells, NIH/3T3 cells, rat brain tissue, Jurkat cells

IP : A549 cells,

IHC : human colon tissue,

IF : A431 cells,

Background Information

PRMT1, the major protein arginine methyltransferase in mammals, catalyzes monomethylation and asymmetric dimethylation of arginine side chains in proteins. Human PRMT1 is encoded by the PRMT1 gene located on chromosome 19 (19q13.3) and composed of 12 exons and 11 introns. At the protein level, human PRMT1 shares a high degree of homology with the different members of the PRMT family that is conserved in eukaryotes. Phylogenetic studies based on the methyltransferase domain highlighted that PRMT1 is closely related to PRMT8.

Notable Publications

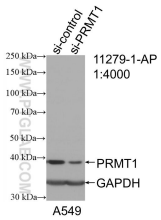
Author	Pubmed ID	Journal	Application
Zhongwei Li	34775498	Cell Death Dis	WB,IHC
Xin-Ke Yin	33420374	Oncogene	IHC
Yizhen Tian	34919946	Toxicol Appl Pharmacol	WB

Storage

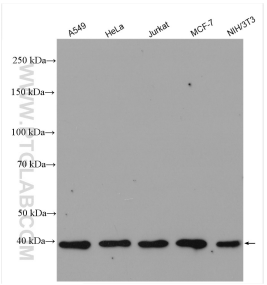
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

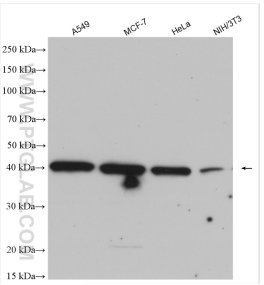
Selected Validation Data



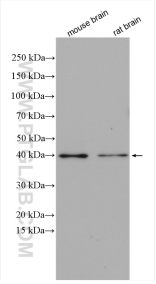
WB result of PRMT1 antibody (11279-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PRMT1 transfected A549 cells.



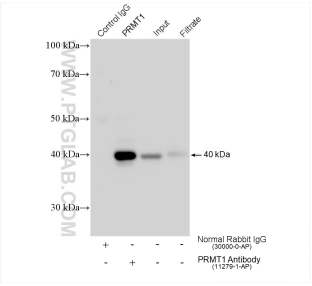
Various lysates were subjected to SDS PAGE followed by western blot with 11279-1-AP (PRMT1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



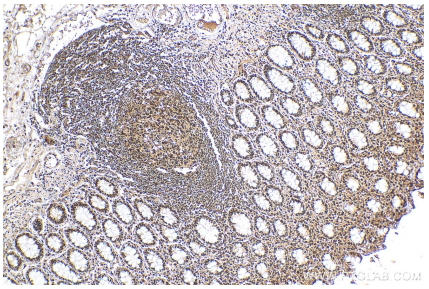
Various lysates were subjected to SDS PAGE followed by western blot with 11279-1-AP (PRMT1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



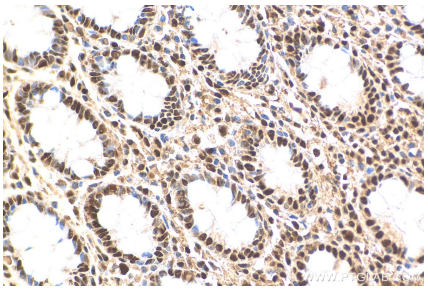
Various lysates were subjected to SDS PAGE followed by western blot with 11279-1-AP (PRMT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



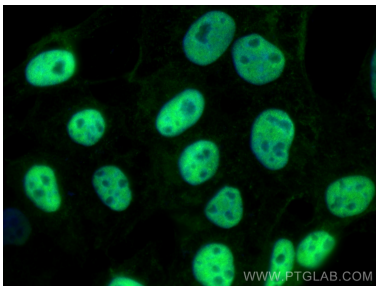
IP result of anti-PRMT1 (IP:11279-1-AP, 4ug; Detection:11279-1-AP 1:2000) with A549 cells lysate 920 ug.



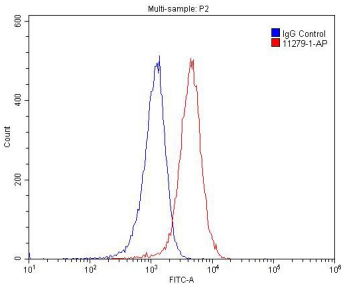
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 11279-1-AP (PRMT1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 11279-1-AP (PRMT1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using PRMT1 antibody (11279-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 Raji cells were stained with 0.2ug PRMT1 antibody (11279-1-AP, red) and control antibody (blue). Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.