

For Research Use Only

# DNMT1 Polyclonal antibody

Catalog Number: 24206-1-AP

Featured Product

93 Publications



## Basic Information

### Catalog Number:

24206-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG19116

### GenBank Accession Number:

BC126227

### GeneID (NCBI):

1786

### UNIPROT ID:

P26358

### Full Name:

DNA (cytosine-5-)-methyltransferase 1

### Calculated MW:

1632 aa, 185 kDa

### Observed MW:

180-200 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP, ChIP, RIP

### Species Specificity:

human, rat

### Cited Species:

human, mouse, rat, pig, chicken, zebrafish, goat

**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** : HeLa cells, C6 cells, HEK-293 cells, HepG2 cells, Jurkat cells

**IP** : HEK-293 cells,

**IHC** : human lung cancer tissue, human breast cancer tissue

**IF/ICC** : HepG2 cells,

## Background Information

DNA methylation is a major epigenetic modification that regulates gene expression. DNMT1, the maintenance DNA methylation enzyme, is the primary enzyme responsible for copying methylation patterns after DNA replication. DNMT1 is required for X chromosome inactivation, imprinting, genomic methylation and proper embryonic development. Overexpression of DNMT1 has been reported in various cancers. DNMT1 exists some isoforms with MW 184 kDa and 145 kDa. (PMID: 10753866)

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenyuan Li	34588431	Cell Death Discov	WB
Yineng Han	32890413	Oral Dis	WB
Kalaiselvi Sivalingam	32899583	Brain Sci	WB,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

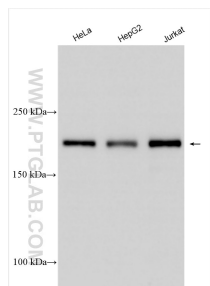
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

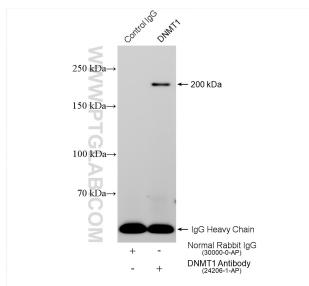
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

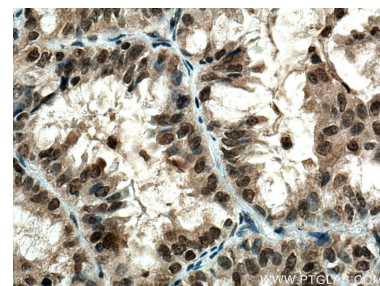
## Selected Validation Data



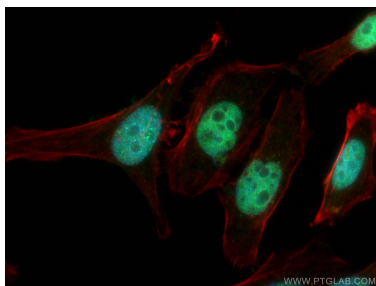
Various lysates were subjected to SDS PAGE followed by western blot with 24206-1-AP (DNMT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-DNMT1 (IP:24206-1-AP, 4ug; Detection:24206-1-AP 1:500) with HEK-293 cells lysate 1400 ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 24206-1-AP (DNMT1 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 HepG2 cells using DNMT1 antibody (24206-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).