

# DNMT1 Rabbit pAb

Catalog No.: A21378

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

183kDa

### Category

Primary antibody

### Applications

ELISA, WB, IF/ICC, IP, ChIP

### Cross-Reactivity

Human

## Background

This gene encodes an enzyme that transfers methyl groups to cytosine nucleotides of genomic DNA. This protein is the major enzyme responsible for maintaining methylation patterns following DNA replication and shows a preference for hemi-methylated DNA. Methylation of DNA is an important component of mammalian epigenetic gene regulation. Aberrant methylation patterns are found in human tumors and associated with developmental abnormalities. Variation in this gene has been associated with cerebellar ataxia, deafness, and narcolepsy, and neuropathy, hereditary sensory, type IE. Alternative splicing results in multiple transcript variants.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**IF/ICC** 1:50 - 1:200

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

**ChIP** 3µg antibody for  
10µg-15µg of Chromatin

## Immunogen Information

### Gene ID

1786

### Swiss Prot

P26358

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1417-1616 of human DNMT1 (NP\_001370.1).

### Synonyms

AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; m.Hsa1; DNMT1

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

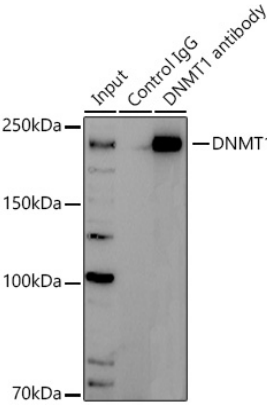
Affinity purification

### Storage

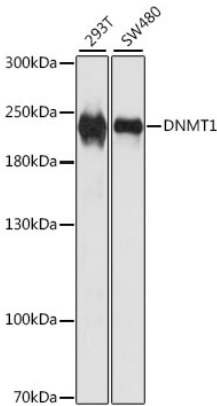
Store at -20°C. Avoid freeze / thaw cycles.

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

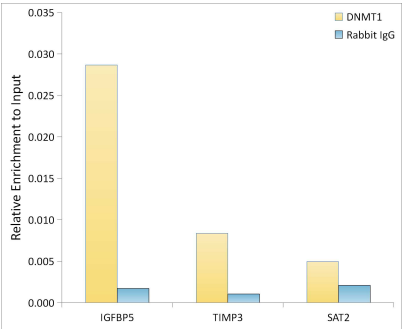
Validation Data



Immunoprecipitation analysis of 300 µg extracts of Jurkat cells using 3 µg DNMT1 antibody (A21378). Western blot was performed from the immunoprecipitate using DNMT1 (A21378) at a dilution of 1:1000.



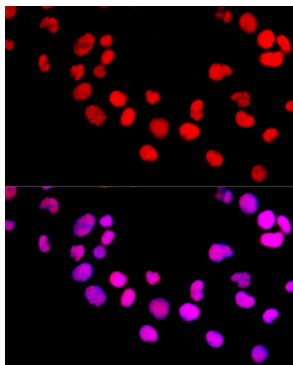
Western blot analysis of various lysates using DNMT1 Rabbit pAb (A21378) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Chromatin immunoprecipitation analysis of extracts of Jurkat cells, using DNMT1 antibody (A21378) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

## Validation Data

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Immunofluorescence analysis of 293T cells using DNMT1 Rabbit pAb (A21378) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.