

# DNMT1 Rabbit pAb

Catalog No.: A16833 **1 Publications**

## Basic Information

**Observed MW**

230kDa

**Calculated MW**

183kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC

**Cross-Reactivity**

Human, Mouse, Rat

## 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

<b>WB</b>	1:500 - 1:2000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200

## Immunogen Information

**Gene ID**

1786

**Swiss Prot**

P26358

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-124 of DNMT1 (NP\_001370.1).

**Synonyms**

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

## Contact

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	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

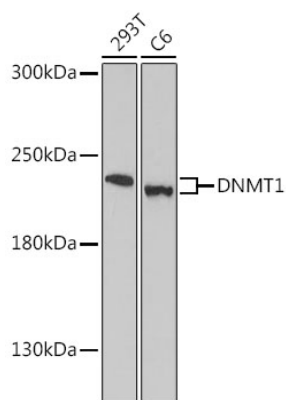
Affinity purification

**Storage**

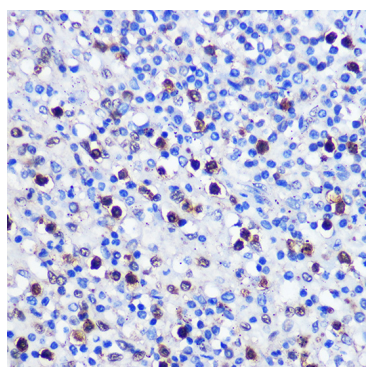
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

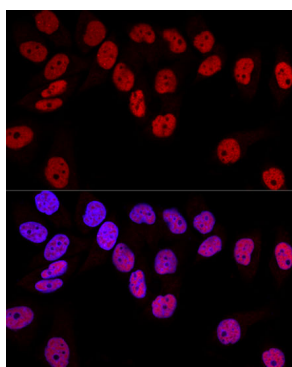
## Validation Data



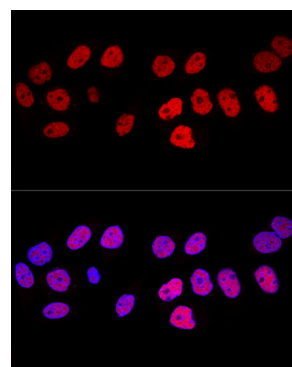
Western blot analysis of various lysates using DNMT1 Rabbit pAb (A16833) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.



Immunohistochemistry analysis of DNMT1 in paraffin-embedded human spleen using DNMT1 Rabbit pAb (A16833) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Confocal immunofluorescence analysis of HeLa cells using DNMT1 Rabbit pAb (A16833) at dilution of 1:100. Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of HeLa cells using DNMT1 Rabbit pAb (A16833) at dilution of 1:100. Blue: DAPI for nuclear staining.