

A16729

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## [KD Validated] DNMT1 Rabbit pAb

Catalog No.: A16729

12 Publications

### Basic Information

#### Observed MW

200kDa

#### Calculated MW

183kDa

#### Category

Mouse Monoclonal Antibody

#### Applications

WB, IHC-P, IF/ICC, ELISA

#### 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

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	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; [KD Validated] DNMT1

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

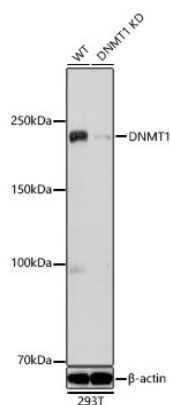
Affinity purification

#### Storage

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

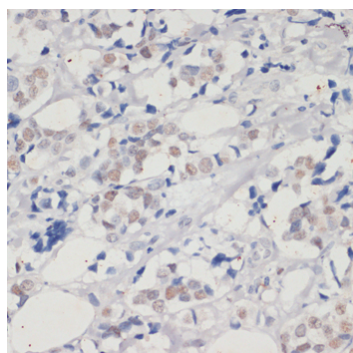
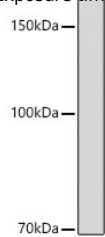
Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

## Validation Data

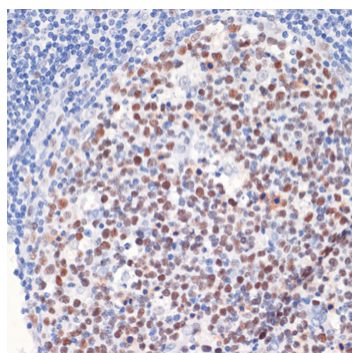


Western blot analysis of lysates from wild type (WT) and DNMT1 knockdown (KD) 293T cells using [KD Validated] DNMT1 Rabbit pAb (A16729) at 1:1000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020)  
Exposure time: 3 s.

Western blot analysis of lysates from Jurkat cells using [KD Validated] DNMT1 Rabbit pAb (A16729) at 1:1000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020)  
Exposure time: 3 s.



Immunohistochemistry analysis of DNMT1 in paraffin-embedded human breast cancer using [KD Validated] DNMT1 Rabbit pAb (A16729) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of DNMT1 in paraffin-embedded human tonsil using [KD Validated] DNMT1 Rabbit pAb (A16729) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.