

DNMT1 Rabbit pAb

Catalog No.: A17474

Basic Information

Observed MW

200kDa

Calculated MW

183kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC, IP, ChIP

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**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 760-1109 of DNMT1 (NP_001370.1).

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

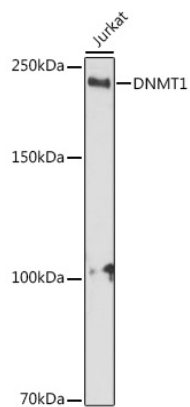
Affinity purification

Storage

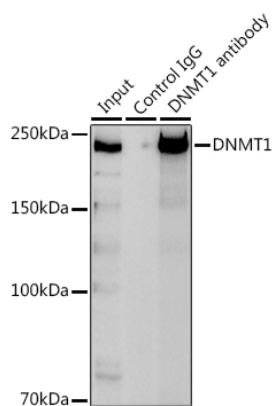
Store at -20°C. Avoid freeze / thaw cycles.

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

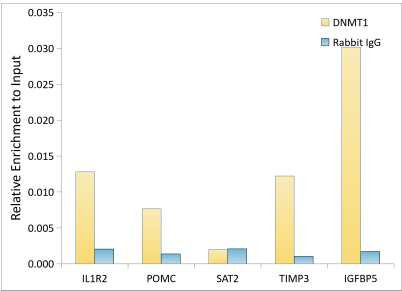
Validation Data



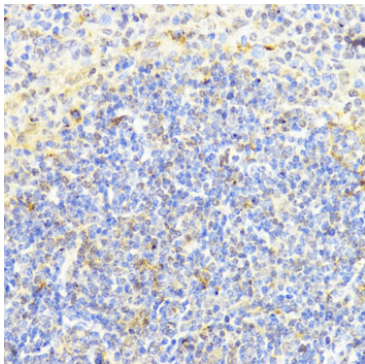
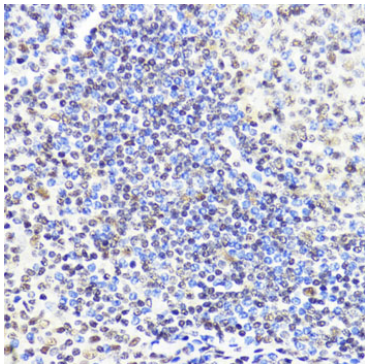
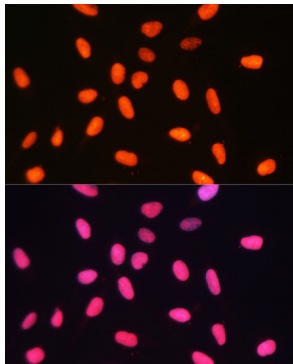
Western blot analysis of lysates from Jurkat cells, using DNMT1 Rabbit pAb (A17474) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.



Immunoprecipitation analysis of 300 µg extracts of Jurkat cells using 3 µg DNMT1 antibody (A17474). Western blot was performed from the immunoprecipitate using DNMT1 antibody (A17474) at a dilution of 1:1000.



Chromatin immunoprecipitation analysis of extracts of Jurkat cells, using DNMT1 antibody (A17474) 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

Immunofluorescence analysis of U-2 OS cells using DNMT1 Rabbit pAb (A17474) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (A5007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Immunohistochemistry analysis of paraffin-embedded human tonsil using DNMT1 Rabbit pAb (A17474) 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 paraffin-embedded mouse spleen using DNMT1 Rabbit pAb (A17474) 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.