

DNMT1 Rabbit mAb

Catalog No.: A22455 **Recombinant** **1 Publications**

Basic Information

Observed MW

200kDa

Calculated MW

183kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IP

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC51345

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 1:500 - 1:1000

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

Immunogen Information

Gene ID

1786

Swiss Prot

P26358

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human DNMT1 (NP_001370.1).

Synonyms

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

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

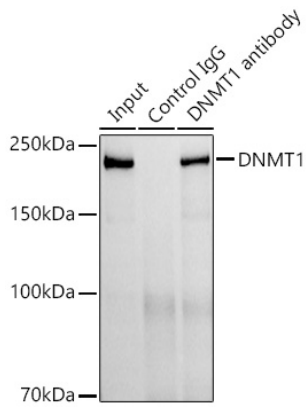
Affinity purification

Storage

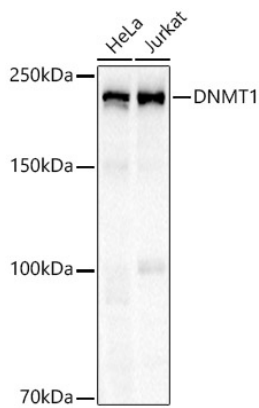
Store at -20°C. Avoid freeze / thaw cycles.

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

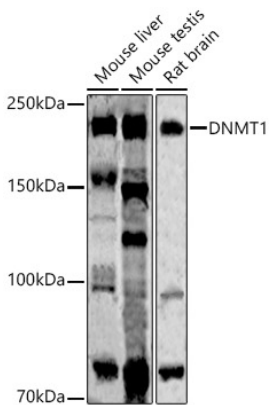
Validation Data



Immunoprecipitation analysis of 300 µg extracts of Jurkat cells using 3 µg DNMT1 antibody (A22455). Western blot was performed from the immunoprecipitate using DNMT1 (A22455) at a dilution of 1:1000.

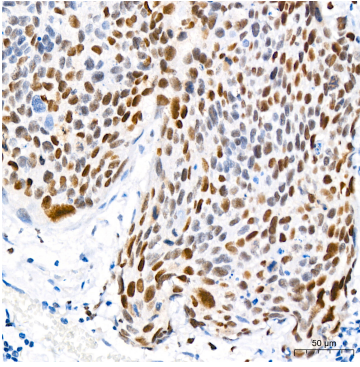


Western blot analysis of various lysates, using DNMT1 Rabbit mAb (A22455) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

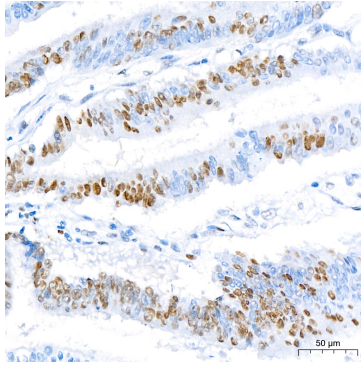


Western blot analysis of various lysates, using DNMT1 Rabbit mAb (A22455) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.

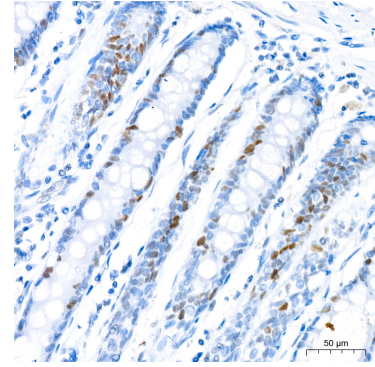
Validation Data



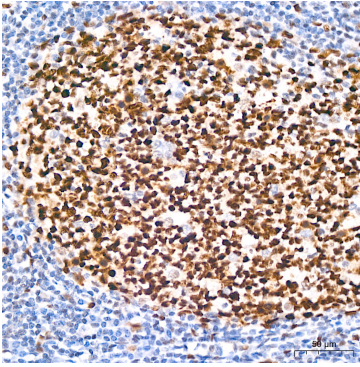
Immunohistochemistry analysis of DNMT1 in paraffin-embedded human cervix cancer tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



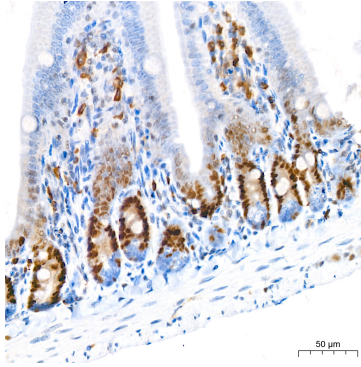
Immunohistochemistry analysis of DNMT1 in paraffin-embedded human colon carcinoma tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



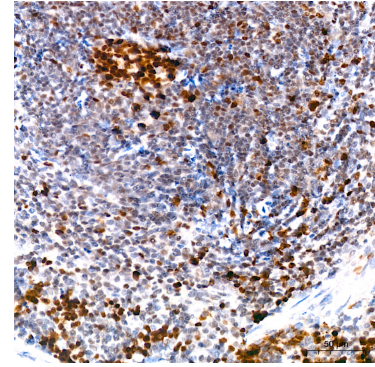
Immunohistochemistry analysis of DNMT1 in paraffin-embedded human colon tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



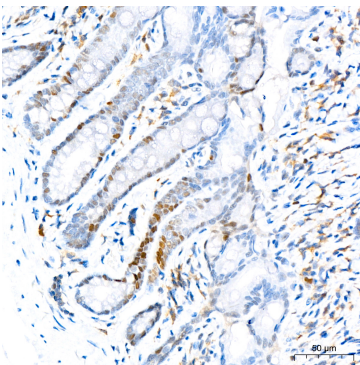
Immunohistochemistry analysis of DNMT1 in paraffin-embedded human tonsil tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



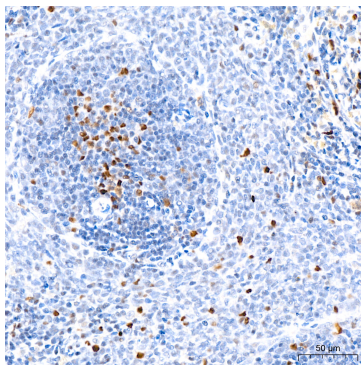
Immunohistochemistry analysis of DNMT1 in paraffin-embedded mouse colon tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of DNMT1 in paraffin-embedded mouse spleen tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of DNMT1 in paraffin-embedded rat colon tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of DNMT1 in paraffin-embedded rat spleen tissue using DNMT1 Rabbit mAb (A22455) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.