A19679

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[KD Validated] DNMT1 Rabbit mAb

Catalog No.: A19679 Recombinant 4 Publications

Basic Information

Observed MW
200kDa

Calculated MW
183kDa

Category
Monoclonal Antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human,Mouse,Rat

Clone number
ARC51348

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	1:1000 - 1:4000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
1786

Swiss Prot
P26358

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
AIM; DNMT; MCMT; CXXC9; HSN1E; ADCADN; m.HsaI; [KD Validated] DNMT1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃

Contact

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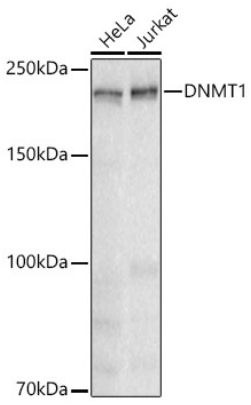
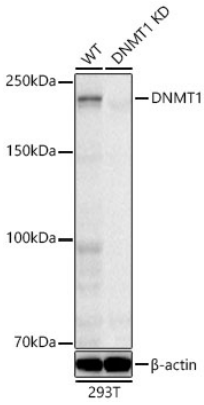
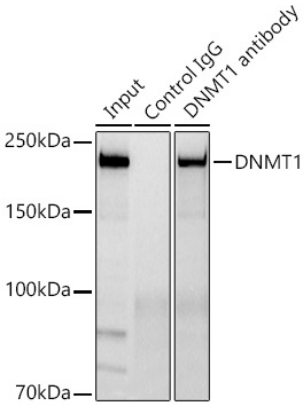
Validation Data



Western blot analysis of various lysates using [KD Validated] DNMT1 Rabbit mAb (A19679) at 1:1000 dilution incubated overnight at 4℃.
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: 30 s.



Western blot analysis of lysates from wild type (WT) and DNMT1 knockdown (KD) 293T cells, using [KD Validated] DNMT1 Rabbit mAb (A19679) at1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Immunoprecipitation of DNMT1 from 300 µg extracts of Jurkat cells was performed using 3 µg of DNMT1 Rabbit mAb (A19679). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using DNMT1 Rabbit mAb (A19679) at a dilution of 1:1000.