[KO Validated] DNMT1 Rabbit pAb

Catalog No. A5495  Category Polyclonal Antibodies
Applications WB, IF, IP  Observed MW 200kDa
Cross-reactivity Human  Calculated MW 144kDa/183kDa/184kDa

Immunogen Information

Immunogen Recombinant fusion protein containing a sequence corresponding to amino acids 1-270 of human DNMT1 (NP_001370.1).
Gene ID 1786
Swiss prot P26358
Synonyms ADCADN;AIM;CXXC9;DNMT;HSN1E;MCMT;m.Hsal;DNMT1

Product information

Source Rabbit
Isotype IgG
Purification method Affinity purification
Storage Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Recommended Dilutions

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<tr>
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<th>WB</th>
<th>1:500 - 1:2000</th>
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<tr>
<td></td>
<td>IF</td>
<td>1:50 - 1:200</td>
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<tr>
<td></td>
<td>IP</td>
<td>1:50 - 1:100</td>
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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.

Western blot analysis of extracts of various cell lines, using DNMT1 antibody (A5495) 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: 1s.

Immunofluorescence analysis of 293T cells using DNMT1 antibody (A5495) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Immunoprecipitation analysis of 200μg extracts of 293T cells using 3μg DNMT1 antibody (A5495). Western blot was performed from the immunoprecipitate using DNMT1 antibody (A5495) at a dilution of 1:1000.

Western blot analysis of extracts from normal (control) and DNMT1 knockout (KO) 293T cells, using DNMT1 antibody (A5495) 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: 1s.