

Anti-Dnmt1 (1037-1386) antibody, affinity-purified (rabbit polyclonal)

70-203 50 μ g

Dnmt1 (DNA (cytosine-5)-methyltransferase 1) has a role in the establishment and regulation of tissue-specific patterns of methylated cytosine residues (epigenetics). Hypermethylation in promoter regions is associated with repression of gene expression. Aberrant methylation patterns are associated with certain human tumors and developmental abnormalities (1, 2). This antibody was raised by Prof. S. Tajima of Osaka Univ. (3, 4)

Applications

- 1) Western blotting (0.2~1 μ g/ml)
- 2) Immunoprecipitation. Especially good for denatured protein and useful for ChIP assays
- 3) Indirect immuno-fluorescence staining

Properties of the product

Antigen: Recombinant mouse Dnmt1 (amino acids 1037-1386) purified by SDS-PAGE.

Antibody: Affinity-purified with the recombinant Dnmt1(1037-1386)

Reactivity: mouse, human, xenopus

Form: 1 mg/ml in PBS, 50% glycerol, 0.05% sodium azide, (and trace of ammonium sulfate)

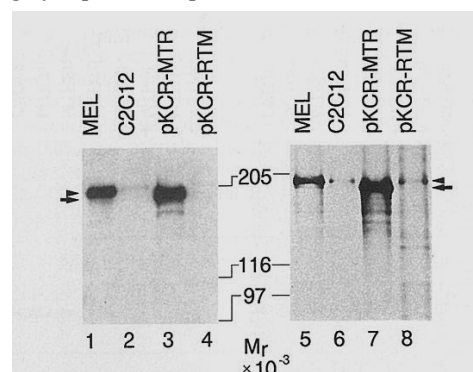
Storage: -20°C (long period; -80°C)

Reference: This product was used in Ref. 3 and 4

1. Di Croce L, *et al.* (2002). Methyltransferase recruitment and DNA hypermethylation of target promoters by an oncogenic transcription factor. *Science* 295: 1079-82.
2. Rhee I, *et al.* (2002). DNMT1 and DNMT3b cooperate to silence genes in human cancer cells. *Nature* 416: 552-6.
3. Takagi H, *et al.* (1995) Overexpression of DNA methyltransferase in myoblast cells accelerates myotube formation. *Eur. J. Biochem.* 282-91
4. Inano K, *et al.* (2000) Maintenance-type DNA methyltransferase is highly expressed in post-mitotic neurons and localized in the cytoplasmic compartment. *J. Biochem.* 128: 315-21

Figure. Immunodetection of Dnmt1

1. Murine erythrolekemia cells, MEL11A2
 2. Mouse myoblast cells, C2C12
 3. C2C12 carrying Dnmt1 overexpressing plasmid
 4. C2C12 carrying negative control plasmid
- 1~4; Western blotting. 5~8; Immunoprecipitation of SDS denatured Dnmt1.



Related product: # 70-201 Anti-Dnmt1 (1-248) antibody, affinity-purified (rabbit polyclonal)

Especially good for indirect immuno-staining and immunoprecipitation of native form of Dnmt1

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