



Anti-Dnmt1 (1037-1386)

BACKGROUND

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)

Product type	Primary antibodies
Host	Rabbit
Source	Serum
Form	Liquid 1 mg/ml in PBS, 50% glycerol, 0.05% sodium azide, (and trace of ammonium sulfate) Affinity-purified with the recombinant Dnmt1 (1037-1386)
Volume	50ug
Concentration	1 mg/ml
Specificity	Dnmt1 (1037-1386)
Antigen	Recombinant mouse Dnmt1 (amino acids 1037-1386) purified by SDS-PAGE
Isotype	

Application notes WB, IP, IF

Recommended use

Recommended dilutions

Western Blotting: 0.2~1 ug/ml

Optimal dilutions/concentrations should be determined by the end user.

Staining Pattern

Cross reactivity mouse, human, xenopus

Storage -20 °C (long period, -80°C)

References 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

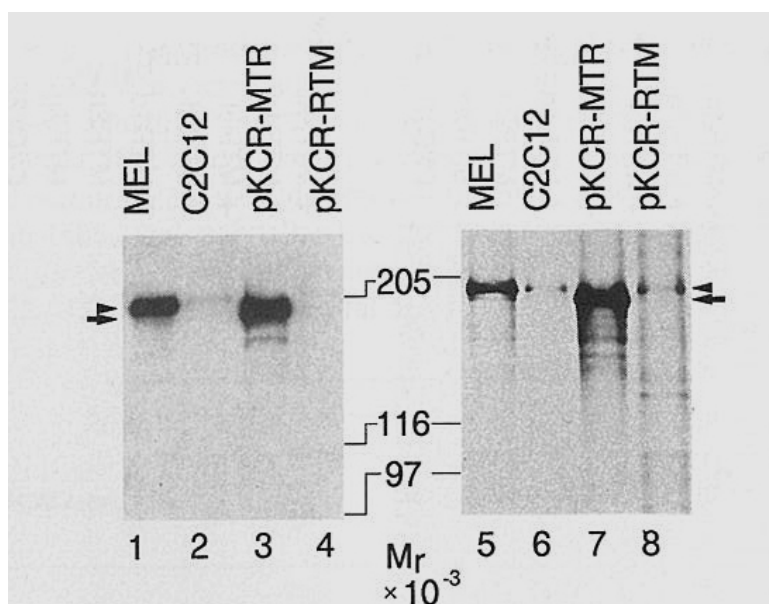


Figure. Immunodetection of Dnmt1

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 products:

70-201 Anti-Dnmt1 (1-248) antibody, affinity-purified (rabbit polyclonal)

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

For research use only. Not for clinical diagnosis.

Manufactured by BioAcademia Inc.



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