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Inspiration for Life Science

POLYCLONAL ANTIBODY

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Catalog No. BAM-70-203

Anti-Dnmt1 (1037-1386) , affinity-purified

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 asssociated 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)
Volume	50ug
Concentration	1 mg/ml
Specificity	Dnmt1 (1037-1386)
Antigen	Recombinant mouse Dnmt1 (amino acids 1037-1386) purified by SDS-PAGE
Clone	
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

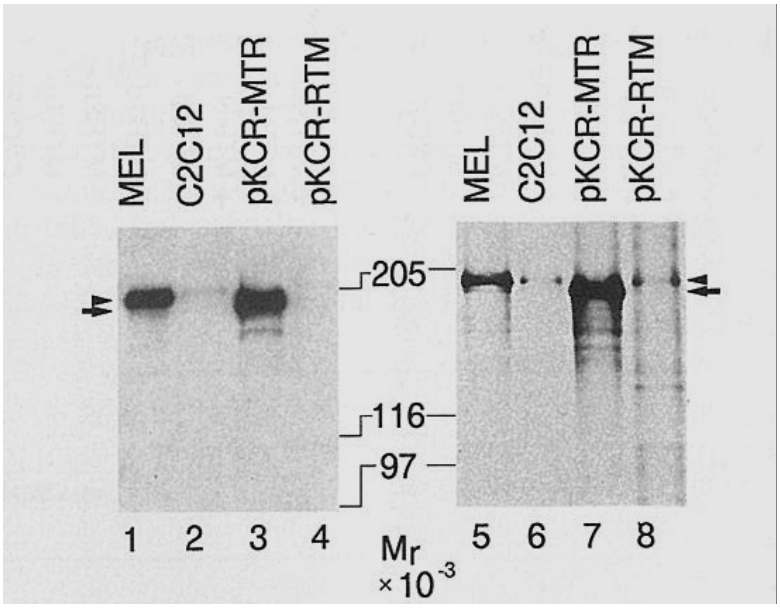

Figure Identification of the Cut5/Rad4 protein in the crude extract of S. pombe with this antibody.
Samples were prepared by alkali-lysis of the cells followed by TCA precipitation of proteins. Lane M: Size markers (kDa)
Lane 1: Wild-type cells
Lane 2: The cut5-5Flag gene replacing the wild-type cut5 gene
Lane 3: The cut5-13myc gene replacing the wild type gene
Lane 4: The cut-TAP gene replacing the wild-type gene
* Cut5 protein is known to be sensitive to protease digestion in the C-terminal region and the native and the degradation products are observed as described in Ref.2

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