# antibodies - online.com







# anti-MBD4 antibody (C-Term)





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Overview	
Quantity:	100 μg
Target:	MBD4
Binding Specificity:	AA 566-580, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Methyl-CpG-binding domain protein 4(MBD4) detection.  Tested with WB in Human, Mouse, Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human MBD4(566-580aa YHDWLWENHEKLSLS), identical to the related rat and mouse sequences.
Sequence:	YHDWLWENHE KLSLS
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse  No cross reactivity with other proteins.  Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Methyl-CpG-binding domain protein 4(MBD4) detection.  Tested with WB in Human, Mouse, Rat.

Protein Name: Methyl-CpG-binding domain protein 4
Immunogen affinity purified.
MBD4
MBD4 (MBD4 Products)
MBD4(Methyl-CpG-Binding Domain Protein 4), also known as MED1, is a protein that in human
is encoded by the MBD4 gene. MBD4 specifically binds methylated DNA, colocalizes with
methylated sequences, and is likely to mediate the effects of DNA methylation in mammalian
cells(Hendrich and Bird, 1998). Riccio et al.(1999) mapped the MBD4 gene to chromosome
3q21-q22 by FISH. Hendrich and Bird(1998) found that both MBD2 and MBD4 specifically
bound methylated DNA in vitro and colocalized with methylated sequences in vivo. They
concluded that MBD2 and MBD4 are likely to be mediators of the effects of DNA methylation in
mammalian cells. Hendrich et al.(1999) showed that MBD4 contains a methyl-CpG-binding
domain that can efficiently remove thymine or uracil from mismatched CpG sites in vitro.
Furthermore, the methyl-CpG-binding domain of MBD4 binds preferentially to 5-methylcytosine
CpG-TpG mismatchesthe primary product of deamination at methyl-CpG.
Synonyms: 3 N(4) ethenocytosine glycosylase antibody G/5 fluorouracil mismatch glycosylase
with biphasic kinetics antibody G/T mismatch glycosylase antibody G/U mismatch glycosylase
antibody MBD 4 antibody MBD4 antibody MBD4_HUMAN antibody MED 1 antibody MED1
antibody Methyl CpG binding domain protein 4 antibody Methyl CpG binding endonuclease 1
antibody Methyl CpG binding protein MBD4 antibody Methyl-CpG-binding domain protein 4
antibody Methyl-CpG-binding endonuclease 1 antibody Methyl-CpG-binding protein MBD4
antibody Mismatch specific DNA N glycosylase antibody Mismatch-specific DNA N-glycosylas
antibody

UniProt: 095243

Pathways: DNA Damage Repair

## **Application Details**

Application Notes:

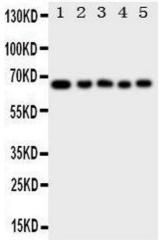
WB: Concentration: 0.1- $0.5 \,\mu g/mL$ , Tested Species: Human, Rat, Predicted Species: Mouse, The detection limit for MBD4 is approximately 1 ng/lane under reducing conditions.

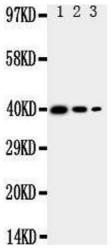
## **Application Details**

Expiry Date:

12 months

fit for the product based on sequence similarities.  Other applications have not been tested. Optimal dilutions should be determined by end use the comment:  Antibody can be supported by chemilluminescence kit ABIN921124 in WB.  Restrictions:  For Research Use only  Handling  Format:  Lyophilized  Reconstitution:  Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.  Concentration:  500 μg/mL  Buffer:  Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.  Preservative:  Thimerosal (Merthiolate), Sodium azide  Precaution of Use:  This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.  Handling Advice:  Avoid repeated freezing and thawing.  Storage:  4 °C/-20 °C  Storage Comment:  At -20°C for one year. After reconstitution, at 4°C for one month.	, application betaile	
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#### **Western Blotting**

Image 1. Anti-MBD4 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Kidney Tissue Lysate Lane 3: A549 Cell Lysate Lane 4: HELA Cell Lysate Lane 5: MCF-7 Cell Lysate

#### **Western Blotting**

Image 2.