

Rabbit MBD4 Polyclonal Antibody | anti-MBD4 antibody

Anti-MBD4 antibody

CATALOG # AAA45485	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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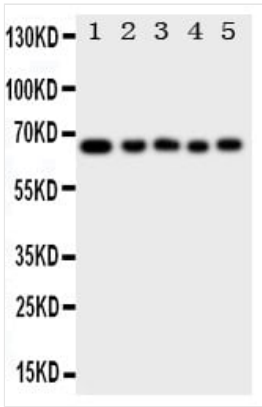
PRODUCT SYNONYMS

MBD4; Polyclonal Antibody; Anti-MBD4 antibody; Methyl-CpG-binding domain protein 4; methyl-CpG binding domain protein 4; 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-glycosylase antibody; anti-MBD4 antibody

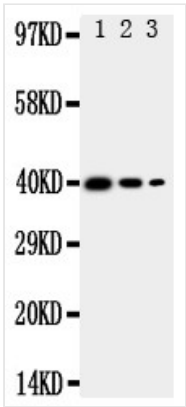
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	580
Applicable Applications for anti-MBD4 antibody	WB (Western Blot)
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.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)
Anti-MBD4 antibody, AAA45485, 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



WB (Western Blot)
Anti-MBD4 antibody, AAA45485, Western blotting
Recombinant Protein Detection Source: E.coli derived -recombinant Human MBD4, 39.7KD(162aa tag+ Q400-S580)
Lane 1: Recombinant Human MBD4 Protein 10ng
Lane 2: Recombinant Human MBD4 Protein 5ng
Lane 3: Recombinant Human MBD4 Protein 2.5ng

ADDITIONAL INFORMATION

Related Product Information for anti-MBD4 antibody

Description: Rabbit IgG polyclonal antibody for Methyl-CpG-binding domain protein 4(MBD4) detection. Tested with WB in Human, Mouse, Rat.

Background: MBD4(Methyl-CpG-Binding Domain Protein 4), also known as MED1, is a protein that in humans 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 mismatches--the primary product of deamination at methyl-CpG.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50400819
NCBI GeneID	8930
UniProt Accession #	O95243; Q2MD36; Q7Z4T3; Q96F09; B4DZN2; D3DNC3; D3DNC4; E9PEE4
Molecular Weight	30,316 Da
NCBI Official Full Name	Methyl-CpG-binding domain protein 4
NCBI Official Synonym Full Names	methyl-CpG binding domain protein 4
NCBI Official Symbol	MBD4
NCBI Official Synonym Symbols	MED1
NCBI Protein Information	methyl-CpG-binding domain protein 4; G/T mismatch glycosylase; G/U mismatch glycosylase; methyl-CpG-binding protein MBD4; 3,N(4)-ethenocytosine glycosylase; methyl-CpG-binding endonuclease 1; mismatch-specific DNA N-glycosylase; putative methyl-CpG binding protein; G/5-fluorouracil mismatch glycosylase with biphasic kinetics
UniProt Protein Name	Methyl-CpG-binding domain protein 4
UniProt Gene Name	MBD4
UniProt Synonym Gene Names	MED1
UniProt Entry Name	MBD4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mbd4-antibody-western-blot-elisa/45485>