



[Go to Product page](#)

Datasheet for ABIN3031772
anti-MBD4 antibody (C-Term)

1 Image

Overview

Quantity:	100 µg
Target:	MBD4
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBD4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	An amino acid sequence from the C-terminus of human Methyl-CpG-Binding Domain Protein 4 (YHDWLWENHEKLSLS) was used as the immunogen for this MBD4 antibody (100% homologous in human, mouse and rat).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	MBD4
Alternative Name:	MBD4 (MBD4 Products)
Background:	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

Target Details

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 gene to chromosome 3q21-q22 by FISH. Hendrich and Bird (1998) found that both MBD2 and -4 specifically bound methylated DNA in vitro and colocalized with methylated sequences in vivo. They concluded that MBD2 and -4 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.

UniProt: [O95243](#)

Pathways: [DNA Damage Repair](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the MBD4 antibody may be required due to differences in protocols and secondary/substrate sensitivity. \. Western blot: 0.5-1 µg/mL

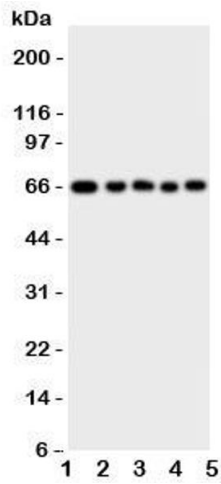
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

Storage Comment: After reconstitution, the MBD4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



Western Blotting

Image 1. Western blot testing of MBD4 antibody