

Datasheet for ABIN7600185  
**anti-MBD4 antibody (AA 16-580)**



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## Overview

Quantity:	100 µg
Target:	MBD4
Binding Specificity:	AA 16-580
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBD4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

## Product Details

Purpose:	Anti-MBD4/MED1 Antibody Picoband®
Immunogen:	E.coli-derived human MBD4/MED1 recombinant protein (Position: A16-S580).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MBD4/MED1 Antibody Picoband® (ABIN7600185). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

## Target Details

Target:	MBD4
Alternative Name:	MBD4 ( <a href="#">MBD4 Products</a> )
Background:	<p>Synonyms: Methyl-CpG-binding domain protein 4, Methyl-CpG-binding endonuclease 1, Methyl-CpG-binding protein MBD4, Mismatch-specific DNA N-glycosylase, MBD4, MED1</p> <p>Background: Methyl-CpG-binding domain protein 4 is a protein that in humans is encoded by the MBD4 gene. It is mapped to 3q21.3. The protein encoded by this gene is a member of a family of nuclear proteins related by the presence of a methyl-CpG binding domain (MBD). These proteins are capable of binding specifically to methylated DNA, and some members can also repress transcription from methylated gene promoters. This protein contains an MBD domain at the N-terminus that functions both in binding to methylated DNA and in protein interactions and a C-terminal mismatch-specific glycosylase domain that is involved in DNA repair. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.</p>
Molecular Weight:	66 kDa
Gene ID:	8930
UniProt:	<a href="#">O95243</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10<sup>6</sup> cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Hendrich, B., Abbott, C., McQueen, H., Chambers, D., Cross, S., Bird, A. Genomic structure and chromosomal mapping of the murine and human Mbd1, Mbd2, Mbd3, and Mbd4 genes. Mammalian Genome 10: 906-912, 1999. 2. Hendrich, B., Bird, A. Identification and characterization of a family of mammalian methyl-CpG binding proteins. Molec. Cell. Biol. 18: 6538-6547, 1998. 3. Hendrich, B., Hardeland, U., Ng, H.-H., Jiricny, J., Bird, A. The thymine glycosylase MBD4 can bind to the product of deamination at methylated CpG sites. Nature 401: 301-304, 1999. Note: Erratum: Nature 404: 525 only, 2000.</p>
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 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg NaN <sub>3</sub> .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.