

Datasheet for ABIN7600796  
**anti-MBD4 antibody (AA 238-534)**



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## Overview

Quantity:	100 µg
Target:	MBD4
Binding Specificity:	AA 238-534
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBD4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

## Product Details

Purpose:	Anti-Mbd4 Antibody Picoband®
Immunogen:	E.coli-derived mouse Mbd4 recombinant protein (Position: R238-D534). Mouse Mbd4 shares 69.7% amino acid (aa) sequence identity with human MBD4.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Anti-Mbd4 Antibody Picoband® (ABIN7600796). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with 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: 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70 kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody</p> <p>Tissue Specificity: Expressed in all tissues.</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:	17193
UniProt:	<a href="#">Q9Z2D7</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10 <sup>6</sup> cells, Mouse ELISA, 0.1-0.5 µg/mL, - 1. Hendrich, B., Abbott, C., McQueen, H., Chambers, D., Cross, S., Bird, A. Genomic structure and
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Application Details

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.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 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 Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	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 freezing and thawing.