BOSTER BIOLOGICAL TECHNOLOGY
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Anti-MBD4 Antibody Picoband®

Catalog Number: PA2042

About MBD4

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.

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Overview

Product Name	Anti-MBD4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MBD4 Antibody catalog # PA2042. Tested in 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	O95243

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Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MBD4, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

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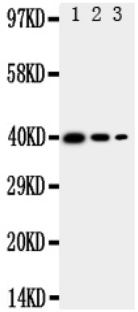
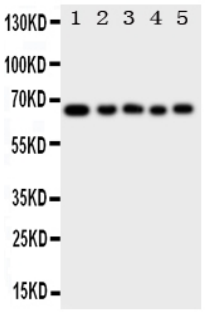
Anti-MBD4 Antibody Picoband® (PA2042) Images



Anti-MBD4 antibody, PA2042, Western blottingRecombinant 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



Anti-MBD4 antibody, PA2042, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Kidney Tissue LysateLane 3: A549 Cell LysateLane 4: HELA Cell LysateLane 5: MCF-7 Cell Lysate

Anti-MBD4 Antibody

For Research Use Only. Not for use in diagnostic procedures.