

Anti-MBD2 Antibody

Catalog Number: RP1049

About MBD2

Methyl-CpG-binding domain protein 2 is a protein that in humans is encoded by the MBD2 gene. It is mapped to 18q21.2. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG-binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. The protein encoded by this gene may function as a mediator of the biological consequences of the methylation signal. It is also reported that this protein functions as a demethylase to activate transcription, as DNA methylation causes gene silencing.

Overview

Product Name	Anti-MBD2 Antibody
Reactive Species	Human
Description	Boster Bio Anti-MBD2 Antibody catalog # RP1049. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	Q9UBB5

Technical Details

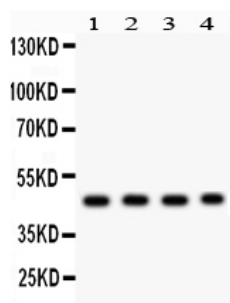
Immunogen	E.coli-derived human MBD2 recombinant protein (Position: W159-A411). Human MBD2 shares 98% amino acid (aa) sequence identity with mouse MBD2.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western 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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human

Anti-MBD2 Antibody (RP1049) Images



Anti-MBD2 antibody, RP1049, Western blotting
All lanes: Anti MBD2 (RP1049) at 0.5ug/ml
IWB: Recombinant Human MBD2 Protein 0.5ng
Predicted bind size: 40KD
Observed bind size: 40KD



Anti-MBD2 antibody, RP1049, Western blotting
All lanes: Anti MBD2 (RP1049) at 0.5ug/ml
Lane 1: SGC Whole Cell Lysate at 40ug
Lane 2: HELA Whole Cell Lysate at 40ug
Lane 3: JURKAT Whole Cell Lysate at 40ug
Lane 4: K562 Whole Cell Lysate at 40ug
Predicted bind size: 47KD
Observed bind size: 47KD

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