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Anti-MBD1 Antibody

Catalog Number: CI1058

About MBD1

MBD1 is a transcriptional repressor that specifically binds to methylated CpG dinucleotides in promoter sequences. MBD1 acts by recruiting a variety of histone deacetylases (HDAC's) and chromatin remodelling factors. MBD1-dependent transcriptional repression is mediated by ATF7IP through the recruitment of factors such as the histone methyltransferase SETDB1. MBD1 probably forms a complex with SETDB1 and ATF7IP which couples DNA methylation to H3K9 trimethylation and represses transcription.

Overview

Product Name	Anti-MBD1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-MBD1 Antibody (Catalog# CI1058). Tested in ChIP, ELISA, WB applications. This antibody reacts with Human, Mouse.
Application	ChIP, ELISA, WB
Clonality	Polyclonal
Formulation	Affinity purified polyclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.
Storage Instructions	Store at -20°C. For long-term storage, store at -80°C. Avoid multiple freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UIS9

Technical Details

Immunogen	This antibody is raised in rabbit against human MBD1 (Methyl-CpG-binding domain protein 1), using a KLH-conjugated synthetic peptide containing a sequence from the N-terminal part of the protein.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. Boster recommends high sensitivity ChIP-seq Kit (CK1001 & CK1002) for Chromatin Immunoprecipitation.
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	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

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	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: User needs to optimize the dilution ratio for this antibody.

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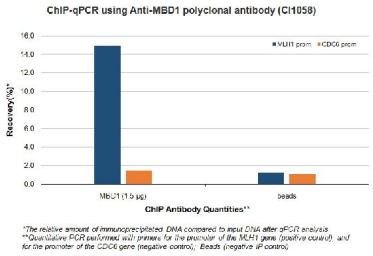
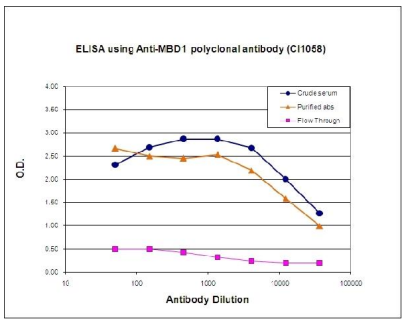
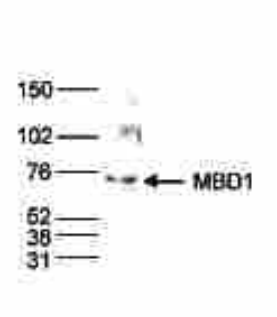
Anti-MBD1 Antibody (CI1058) Images



ChIP assays were performed using human osteosarcoma (U2OS) cells, Anti-MBD1 polyclonal antibody (Catalog # CI1058) and optimized PCR primer sets. Sheared chromatin from 1x10e6 cells and 1.5 ug of antibody were used per ChIP experiment. Beads only were used as a negative IP control. Quantitative PCR was performed with primers for the promoter of the MLH1 gene, used as a positive control, and for the promoter of the CDC6 gene, used as a negative control.



To determine the titer of the antibody, an ELISA was performed using a serial dilution of Anti-MBD1 polyclonal antibody (Catalog # CI1058), crude serum and Flow Through. The plates were coated with the peptide used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the purified antibody was estimated to be 1:20,000.



Western blot analysis of MBD1 expression in histone extracts from HeLa cells (40 ug). MBD1 was detected using Anti-MBD1 polyclonal antibody (Catalog # CI1058) at 1/1000 dilution.

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