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Datasheet for ABIN6655183  
**anti-MBD1 antibody (N-Term)**

3 Images

### Overview

Quantity:	50 µg
Target:	MBD1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Chromatin Immunoprecipitation (ChIP)

### Product Details

Immunogen:	Immunogen: Anti-MBD1 Antibody was produced in rabbits by repeated immunizations with a synthetic peptide containing a sequence from the N-terminus of human MBD1. Immunogen Type: Peptide
Isotype:	IgG
Cross-Reactivity (Details):	Cross reactivity with other species was not tested.
Purification:	Anti-MBD1 Antibody was purified by affinity purification.

### Target Details

Target:	MBD1
Alternative Name:	MBD1 ( <a href="#">MBD1 Products</a> )

## Target Details

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**Background:** Synonyms: Methyl-CpG-binding domain protein 1, CXXC-type zinc finger protein 3, Methyl-CpG-binding protein MBD1, Protein containing methyl-CpG-binding domain 1, CXXC3, PCM1  
Background: 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. Anti-MBD1 Antibody is ideal for research in Epigenetics, Gene Expression and Chromatin Remodeling.  
Gene Name: MBD1

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Gene ID: 4152

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NCBI Accession: [NP\\_001191065](#)

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UniProt: [Q9UIS9](#)

## Application Details

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**Application Notes:** Application Note: Anti-MBD1 Antibody is suitable for Chromatin Immunoprecipitation, ELISA and Western Blots. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 75 kDa in the appropriate cell lysate or extract.  
ChIP Dilution: 1.5 µg per IP  
ELISA Dilution: 1:1,000  
Western Blot Dilution: 1:500

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2  
0.05 % (w/v) Sodium Azide and 0.05 % ProClin 300/p>  
Stabilizer: None

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**Preservative:** ProClin, Sodium azide

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**Precaution of Use:** This product contains Sodium azide and ProClin: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

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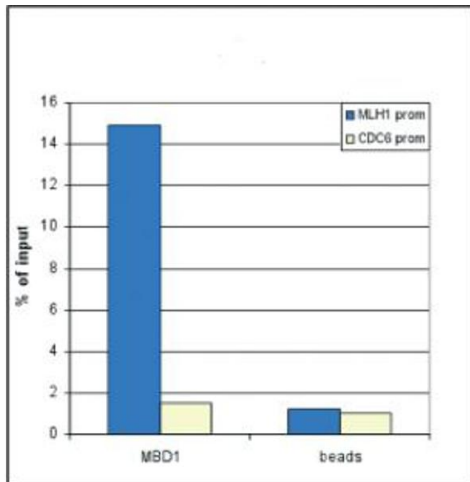
**Storage:** RT,4 °C,-20 °C

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## Handling

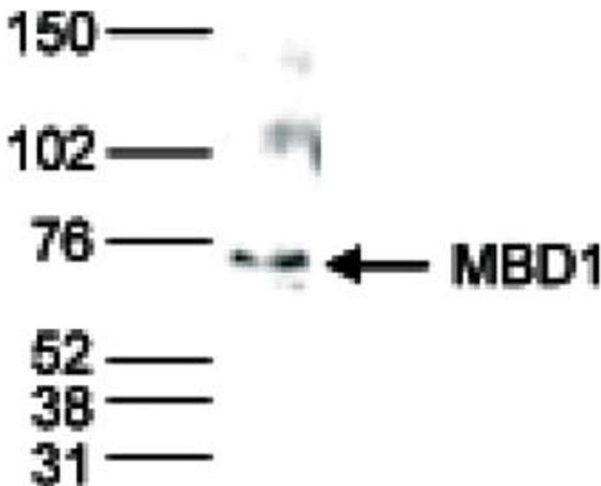
Storage Comment: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

## Images



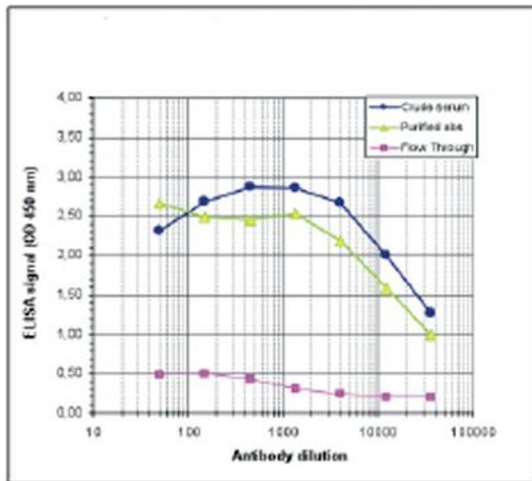
### Chromatin Immunoprecipitation

**Image 1.** Chromatin Immunoprecipitation anti-MBD1 antibody Chromatin Immunoprecipitation performed with rabbit anti-MBD1 antibody. ChIP assays were performed using human osteosarcoma (U2OS) cells and optimized PCR primer sets. Sheared chromatin from  $1 \times 10^6$  cells and 1.5  $\mu\text{g}$  of antibody were used per ChIP experiment. Beads only were used as a negative IP control. Quantitative PCR was performed with primers for the promoters of the MLH1 gene (used as a positive control) and CDC6 gene (used as a negative control). This figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



### Western Blotting

**Image 2.** Western Blot results of Rabbit anti-MBD1 antibody Western Blot results of Rabbit anti-MBD1 antibody. Lane 1: Nuclear extracts of HeLa cells. Load: 40  $\mu\text{g}$  per lane. Primary Antibody: anti-MBD1 antibody at 1:500 overnight at 4°C. Block: TBS-Tween / 5% BLOTTO. Secondary Antibody: anti-rabbit HRP at 1:10,000 for 1hr at RT.



## ELISA

**Image 3.** ELISA results of rabbit anti-MBD1 antibody ELISA results of rabbit anti-MBD1 antibody. Antigen: human MBD1 peptide. Coating amount: 0.1 µg per well. Primary antibody: Purified anti-human MBD1 antibody, crude serum, and flow through. Dilution series: serial dilution. Estimated Antibody Titer to be 1:20,000. Secondary antibody: Peroxidase anti-Rabbit secondary antibody at 1:20,000. Substrate: TMB .