

Recombinant Human MBD1 cell lysate

Cat. No. MBD1-1064HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. 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. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. Five transcript variants of the MBD1 are generated by alternative splicing resulting in protein isoforms that contain one MBD domain, two to three cysteine-rich (CXXC) domains, and some differences in the COOH terminus. All five transcript variants repress transcription from methylated promoters; in addition, variants with three CXXC domains also repress unmethylated promoter activity. MBD1 and MBD2 map very close to each other on chromosome 18q21.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

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Gene Name	MBD1 methyl-CpG binding domain protein 1 [Homo sapiens]
Official Symbol	MBD1
Synonyms	MBD1; methyl-CpG binding domain protein 1; methyl-CpG-binding domain protein 1; CXXC3; PCM1; CXXC-type zinc finger protein 3; protein containing methyl-CpG-binding domain 1; methyl-CpG binding domain protein 1 isoform PCM1; the regulator of fibroblast growth factor 2 (FGF-2) transcription; RFT;
Gene ID	4152
mRNA Refseq	NM_001204136
Protein Refseq	NP_001191065
MIM	156535
UniProt ID	Q9UIS9
Chromosome Location	18q21
Function	DNA binding; metal ion binding; methyl-CpG binding; protein binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity; zinc ion binding;