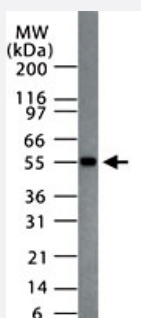


MBD1 polyclonal antibody

Catalog # PAB0172 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of MBD1 in HeLa cell lysate with MBD1 polyclonal antibody (Cat # PAB0172). A protein band with an approximate molecular weight of 55 KDa was detected.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MBD1.
Immunogen	A mixture of synthetic peptides corresponding to amino acids 98-113 and 391-405 of human MBD1.
Sequence	RQVG PQSGEVRKEAPR, SESEDGAGSPPPYRR
Host	Rabbit
Reactivity	Human
Form	Liquid
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of MBD1 in HeLa cell lysate with MBD1 polyclonal antibody (Cat # PAB0172). A protein band with an approximate molecular weight of 55 KDa was detected.

Gene Info — MBD1

Entrez GeneID [4152](#)

Protein Accession# [NP_056671.2](#)

Gene Name MBD1

Gene Alias CXXC3, PCM1, RFT

Gene Description methyl-CpG binding domain protein 1

Omim ID [156535](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations OTTHUMP00000163504|OTTHUMP00000163506|OTTHUMP00000163507|methyl-CpG binding domain protein 1 isoform PCM1|the regulator of fibroblast growth factor 2 (FGF-2) transcription

Disease

- [Adenocarcinoma](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)

- [Lung Neoplasms](#)
- [Neoplasm Recurrence](#)
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