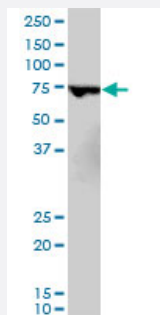


MBD1 monoclonal antibody (M03), clone 4F6

Catalog # H00004152-M03

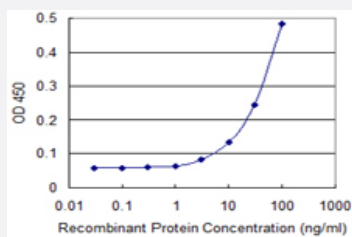
Size 100 ug

Applications



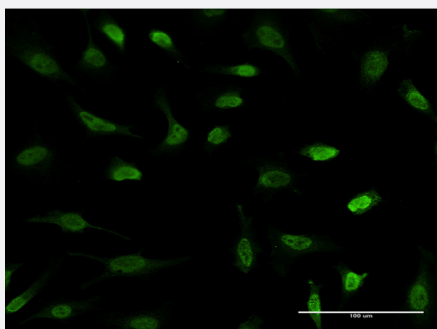
Western Blot (Cell lysate)

MBD1 monoclonal antibody (M03), clone 4F6. Western Blot analysis of MBD1 expression in IMR-32 (Cat # L008V1).



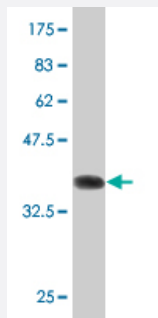
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MBD1 is 3 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to MBD1 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.08 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant MBD1.
Immunogen	MBD1 (NP_056671, 415 a.a. ~ 508 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	HHLGPTLKPTLATRTAQPDHTQAPTKQEAGGGFVLPPPGTDLVFLREGASSPVQVPGPVAASTE ALLQEAQCSSLWVVALPQVKQEKAADTQDE
Host	Mouse
Reactivity	Human
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.08 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

MBD1 monoclonal antibody (M03), clone 4F6. Western Blot analysis of MBD1 expression in IMR-32 (Cat # L008V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged MBD1 is 3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to MBD1 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — MBD1

Entrez GeneID [4152](#)

GeneBank Accession# [NM_015846](#)

Protein Accession# [NP_056671](#)

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](#)
- [Neoplasms](#)