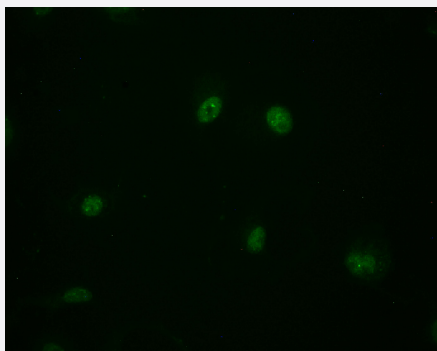


RecomAb™

# MBD1 recombinant monoclonal antibody, clone 10B10

Catalog # RAB07565      Size 100 uL

## Applications



### Immunofluorescence

Immunofluorescent staining of MCF-7 Cells with MBD1 recombinant monoclonal antibody, clone 10B10 (Cat # RAB07565), counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 498-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against human MBD1.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic peptide corresponding to human MBD1.
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Affinity chromatography purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	ELISA Immunofluorescence (1:50-1:200) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)

**Storage Instruction**

Store at -20°C or -80°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

- Immunofluorescence

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — MBD1

**Entrez GeneID**[4152](#)**Protein Accession#**[Q9UIS9](#)**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](#)