

DNAxPAb

Hard-to-Find
Antibody

MBD1 DNAxPab

Catalog # H00004152-W01P

Size 200 ug

Specification

Product Description Rabbit polyclonal antibody raised against a full-length human MBD1 DNA using DNAx™ Immune technology.

Technology [DNAx™ Immune](#)

Immunogen Full-length human DNA

Sequence MAEDWLDCPALGPWKRREVFRKSGATCGRSDTYQSPTGDRIRSKVELTRYLGPACDLTLFDF
KQGILCYPAKPAHPVAVASKKRKKPSRPAKTRKRQVGPQSGEVRKEAPRDETKADTDAPASF
PAPGCCENCGISFSGDGTQRQLKTLCKDCRAQRIAFNREQRMFKRVGCGECAACQVTEDCGA
CSTCLLQLPHDVASGLFCKCERRRCLRMERSRGCGVCRGCQTQEDCGHCPICLRPPRPGLRRQ
WKCVRRLRGLRGKHARRKGGCDSKMAARRRPGAQPLPPPPPSQSPEPTEPHPRALAPSPPAEF
IYCVDEDELQPYTNRRQNRKCGACAACLRMDCGRCDFCCDKPKFGGSNQKRQKCRWRQCL
QFAMKRLLPSVWSESEDGAGSPPPYRRRKRPSSARRHHLGPTLKTATRTAQPDHTQAPTKQ
EAGGGFVLPPPGTDLVFLREGASSPVQVPGPVAASTEALLQEAQCSGLSWVVALPQVKQEKAD
TQDEWTPGTAVLTSPVLVPGCPSKAVDPGLPSVKQEPDPPEEDKEENKDDASAKLAPEEEAG
GAGTPVITEIFSLGGTRFRDTAVWLPRSKDLKKPGARKQ

Host Rabbit

Reactivity Human

Purification Protein A

Quality Control Testing Antibody reactive against mammalian transfected lysate.

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 (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — MBD1

Entrez GeneID [4152](#)

GeneBank Accession# [NM_015846.2](#)

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

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