



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet

MBD1 (Human) Recombinant Protein (P01)

Catalog Number: H00004152-P01

Regulation Status: For research use only (RUO)

Product Description: Human MBD1 full-length ORF (NP_056671.2, 1 a.a. - 605 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MAEDWLDCPALGPGWKRREVFVKSGATCGRSDTY
QSPTGDIRSKVELTRYLGPACDLTLDFKQGILCYPA
PKAHPVAVASKKRKKPSRPAKTRKRQVGPQSGEVRK
EAPRDETKADTDAPASFPAPGCCENCISFSGDGTQ
RQRLKTLCKDCRAQRIAFNREQRMFKRVGCGECAAC
QVTEDCGACSTCLLQLPHDVASGLFCKCERRRCLRIV
ERSRGCVCRCGQQTQEDCGHCPICLRPPRPLRRQ
WKCVRRLRGLRGKHARRKGGCDSKMAARRRPGAQPL
PPPPSQSPEPTEPHPRALAPSPPAEFYIYCVDEDELQ
PYTNRRQNRKCGACAACLRRMDCGRCDFCCDKPKF
GGSNQKRQKCRWRQCLQFAMKRLPSVWSEEDGA
GSPPPYRRRKRPSARRHHLGPTLKTATRTAQPDPH
TQAPTQKEAGGGFVLPPTDLVFLREGASSPVQVPG
PVAASTEALLQEAQCSGLSWVVALPQVKQEKADTQD
EWTPGTAVLTSPVLVPGCPSKAVDPGLPSVKQEPDP
EEDKEENKDDASAKLAPEEEAGGAGTPVITEIFSLGGT
RFRDTAVWLPRSKDLKPKGARKQ

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 93

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4152

Gene Symbol: MBD1

Gene Alias: CXXC3, PCM1, RFT

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]

References:

1. Examination of the specificity of DNA methylation profiling techniques towards 5-methylcytosine and 5-hydroxymethylcytosine. Jin SG, Kadam S, Pfeifer GP. *Nucleic Acids Res.* 2010 Apr 5. [Epub ahead of print]