

Datasheet for ABIN7554471

MBD1 Protein (AA 1-605) (His tag)



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Overview

Quantity:	1 mg
Target:	MBD1
Protein Characteristics:	AA 1-605
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBD1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MBD1 Protein expressed in mammalian cells.
Sequence:	MAEDWLDCPA LGPGWKRREV FRKSGATCGR SDTYYSQPTG DRIRSKVELT RYLGPACDLT LDFDKQGILC YPAPKAHPVA VASKKRKKPS RPAKTRKRQV GPQSGEVRKE APRDETKADT DTAPASFPAP GCCENCISF SGDGTQRQRL KTLCKDCRAQ RIAFNREQRM FKRVGCGECA ACQVTEDCGA CSTCLLQLPH DVASGLFCKC ERRRCLRIVE RSRGCGVCRG CQTQEDCGHC PICLRPPRPG LRRQWKCVQR RCLRGKHARR KGGCDKMAA RRRPGAQPLP PPPPSQSPEP TEPHPRALAP SPPEAFIYYC VDEDELQPYT NRRQNRKCGA CAACLRMRDC GRCDFCCDKP KFGGSNQKRQ KCRWRQCLQF AMKRLLPSVW SESEDGAGSP PPYRRRKRPS SARRHHLGPT LKPTLATRTA QPDHTQAPTK QEAGGGFVLP PPGTDLVFLR EGASSPVQVP GPVAASTEAL LQEAQCSGLS WVVALPQVKQ EKADTQDEWT PGTAULTSPV LVPGCPSKAV DPGLPSVKQE PPDPEEDKEE NKDDSASKLA PEEEAGGAGT PVITEIFSLG GTRFRDTAVW LPRSKDLKKP GARKQ Sequence without tag. The proposed Purification-Tag is based on experiences with the

expression system, a different complexity of the protein could make another tag necessary.
In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	MBD1
Alternative Name:	MBD1 (MBD1 Products)
Background:	<p>Methyl-CpG-binding domain protein 1 (CXXC-type zinc finger protein 3) (Methyl-CpG-binding protein MBD1) (Protein containing methyl-CpG-binding domain 1),FUNCTION: Transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binding is abolished by the presence of 7-mG that is produced by DNA damage by methylmethanesulfonate (MMS). Acts as transcriptional repressor and plays a role in gene silencing by recruiting ATF7IP, which in turn recruits factors such as the histone methyltransferase SETDB1. Probably forms a complex with SETDB1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Isoform 1 and isoform 2 can also repress transcription from unmethylated promoters. {ECO:0000269 PubMed:10454587, ECO:0000269 PubMed:10648624, ECO:0000269 PubMed:12665582, ECO:0000269 PubMed:12697822,</p>

Target Details

ECO:0000269|PubMed:12711603, ECO:0000269|PubMed:14555760,
ECO:0000269|PubMed:14610093, ECO:0000269|PubMed:9207790,
ECO:0000269|PubMed:9774669}.

Molecular Weight: 66.6 kDa

UniProt: [Q9UIS9](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months