Datasheet for ABIN7549234
MBD2 Protein (AA 1-411) (His tag)

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Overview

Quantity:	1 mg
Target:	MBD2
Protein Characteristics:	AA 1-411
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBD2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MBD2 Protein expressed in mammalian cells.
Sequence:	MRAHPGGGRC CPEQEEGESA AGGSGAGGDS AIEQGGQGSA LAPSPVSGVR REGARGGGRG RGRWKQAGRG GGVCGRGRGR GRGRGRGRGR GRGRGRPPSG GSGLGGDGGG CGGGGSGGGG APRREPVPFP SGSAGPGPRG PRATESGKRM DCPALPPGWK KEEVIRKSGL SAGKSDVYYF SPSGKKFRSK PQLARYLGNT VDLSSFDFRT GKMMPSKLQK NKQRLRNDPL NQNKGKPDLN TTLPIRQTAS IFKQPVTKVT NHPSNKVKSD PQRMNEQPRQ LFWEKRLQGL SASDVTEQII KTMELPKGLQ GVGPGSNDET LLSAVASALH TSSAPITGQV SAAVEKNPAV WLNTSQPLCK AFIVTDEDIR KQEERVQQVR KKLEEALMAD ILSRAADTEE MDIEMDSGDE A **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:	**Key Benefits:** • 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). 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	MBD2
Alternative Name:	MBD2 (MBD2 Products)
Background:	Methyl-CpG-binding domain protein 2 (Demethylase) (DMTase) (Methyl-CpG-binding protein MBD2),FUNCTION: Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides (PubMed:9774669). Binds hemimethylated DNA as well (PubMed:10947852, PubMed:24307175). Recruits histone deacetylases and DNA methyltransferases to chromatin (PubMed:10471499, PubMed:10947852). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:16428440, PubMed:28977666). Acts as a transcriptional repressor and plays a role in gene silencing (PubMed:10471499, PubMed:10947852, PubMed:16415179). Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression (PubMed:16415179). May enhance the activation of some unmethylated cAMP-responsive promoters (PubMed:12665568). {ECO:0000269|PubMed:10471499, ECO:0000269|PubMed:10947852, ECO:0000269|PubMed:12665568, ECO:0000269|PubMed:16415179, ECO:0000269|PubMed:16428440,

Target Details

	ECO:0000269|PubMed:24307175, ECO:0000269|PubMed:28977666, ECO:0000269|PubMed:9774669}.
Molecular Weight:	43.3 kDa
UniProt:	Q9UBB5
Pathways:	Chromatin Binding

Application Details

Application Notes:	We expect the protein to work for functional studies. 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