Datasheet for ABIN3093566

L3MBTL1 Protein (AA 1-752) (His tag)

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Overview

Quantity:	1 mg
Target:	L3MBTL1
Protein Characteristics:	AA 1-752
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This L3MBTL1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MRRREGHGTD SEMGQGPVRE SQSSDPPALQ FRISEYKPLN MAGVEQPPSP ELRQEGVTEY EDGGAPAGDG EAGPQQAEDH PQNPPEDPNQ DPPEDDSTCQ CQACGPHQAA GPDLGSSNDG CPQLFQERSV IVENSSGSTS ASELLKPMKK RKRREYQSPS EEESEPEAME KQEEGKDPEG QPTASTPESE EWSSSQPATG EKKECWSWES YLEEQKAITA PVSLFQDSQA VTHNKNGFKL GMKLEGIDPQ HPSMYFILTV AEVCGYRLRL HFDGYSECHD FWVNANSPDI HPAGWFEKTG HKLQPPKGYK EEEFSWSQYL RSTRAQAAPK HLFVSQSHSP PPLGFQVGMK LEAVDRMNPS LVCVASVTDV VDSRFLVHFD NWDDTYDYWC DPSSPYIHPV GWCQKQGKPL TPPQDYPDPD NFCWEKYLEE TGASAVPTWA FKVRPPHSFL VNMKLEAVDR RNPALIRVAS VEDVEDHRIK IHFDGWSHGY DFWIDADHPD IHPAGWCSKT GHPLQPPLGP REPSSASPGG CPPLSYRSLP HTRTSKYSFH HRKCPTPGCD GSGHVTGKFT AHHCLSGCPL AERNQSRLKA ELSDSEASAR KKNLSGFSPR KKPRHHGRIG RPPKYRKIPQ EDFQTLTPDV VHQSLFMSAL SAHPDRSLSV CWEQHCKLLP GVAGISASTV AKWTIDEVFG FVQTLTGCED QARLFKDEMI DGEAFLLLTQ

Product Details

	ADIVKIMSVK LGPALKIYNA ILMFKNADDT LK **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human L3MBTL1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

Product Details

Grade:	Crystallography grade

Target Details

Target:	L3MBTL1
Alternative Name:	L3MBTL1 (L3MBTL1 Products)
Background:	Polycomb group (PcG) protein that specifically recognizes and binds mono- and dimethyllysine residues on target proteins, therey acting as a 'reader' of a network of post-translational modifications. PcG proteins maintain the transcriptionally repressive state of genes: acts as a chromatin compaction factor by recognizing and binding mono- and dimethylated histone H1b/HIST1H1E at 'Lys-26' (H1bK26me1 and H1bK26me2) and histone H4 at 'Lys-20' (H4K20me1 and H4K20me2), leading to condense chromatin and repress transcription. Recognizes and binds p53/TP53 monomethylated at 'Lys-382', leading to repress p53/TP53-target genes. Also recognizes and binds RB1/RB monomethylated at 'Lys-860'. Participates in the ETV6-mediated repression. Probably plays a role in cell proliferation. Overexpression induces multinucleated cells, suggesting that it is required to accomplish normal mitosis. {ECO:0000269|PubMed:17540172, ECO:0000269|PubMed:18408754, ECO:0000269|PubMed:20870719, ECO:0000269|PubMed:20870725}.
Molecular Weight:	84.8 kDa Including tag.
UniProt:	Q9Y468
Pathways:	Chromatin Binding

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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)