Datasheet for ABIN3093786

MIB2 Protein (AA 1-1013) (His tag)

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Overview

Quantity:	1 mg
Target:	MIB2
Protein Characteristics:	AA 1-1013
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MIB2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MGWKPSEARG QSQSFQASGL QPRSLKAARR ATGRPDRSRA ARPTMDPSAH RSRAAPPNMD PDPQAGVQVG MRVVRGVDWK WGQQDGGEGG VGTVVELGRH GSPSTPDRTV VVQWDQGTRT NYRAGYQGAH DLLLYDNAQI GVRHPNIICD CCKKHGLRGM RWKCRVCLDY DLCTQCYMHN KHELAHAFDR YETAHSRPVT LSPRQGLPRI PLRGIFQGAK VVRGPDWEWG SQDGGEGKPG RVVDIRGWDV ETGRSVASVT WADGTTNVYR VGHKGKVDLK CVGEAAGGFY YKDHLPRLGK PAELQRRVSA DSQPFQHGDK VKCLLDTDVL REMQEGHGGW NPRMAEFIGQ TGTVHRITDR GDVRVQFNHE TRWTFHPGAL TKHHSFWVGD VVRVIGDLDT VKRLQAGHGE WTDDMAPALG RVGKVVKVFG DGNLRVAVAG QRWTFSPSCL VAYRPEEDAN LDVAERAREN KSSLSVALDK LRAQKSDPEH PGRLVVEVAL GNAARALDLL RRRPEQVDTK NQGRTALQVA AYLGQVELIR LLLQARAGVD LPDDEGNTAL HYAALGNQPE ATRVLLSAGC RADAINSTQS TALHVAVQRG FLEVVRALCE RGCDVNLPDA HSDTPLHSAI SAGTGASGIV EVLTEVPNID VTATNSQGFT LLHHASLKGH ALAVRKILAR ARQLVDAKKE DGFTALHLAA LNNHREVAQI LIREGRCDVN

VRNRKLQSPL HLAVQQAHVG LVPLLVDAGC SVNAEDEEGD TALHVALQRH QLLPLVADGA GGDPGPLQLL SRLQASGLPG SAELTVGAAV ACFLALEGAD VSYTNHRGRS PLDLAAEGRV LKALQGCAQR FRERQAGGGA APGPRQTLGT PNTVTNLHVG AAPGPEAAEC LVCSELALLV LFSPCQHRTV CEECARRMKK CIRCQVVVSK KLRPDGSEVA SAAPAPGPPR QLVEELQSRY RQMEERITCP ICIDSHIRLV FQCGHGACAP CGSALSACPI CRQPIRDRIQ IFV

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 MIB2 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.

Product Details

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	MIB2
Alternative Name:	MIB2 (MIB2 Products)
Background:	E3 ubiquitin-protein ligase that mediates ubiquitination of Delta receptors, which act as ligands of Notch proteins. Positively regulates the Delta-mediated Notch signaling by ubiquitinating the intracellular domain of Delta, leading to endocytosis of Delta receptors (By similarity). {ECO:0000250}.
Molecular Weight:	110.9 kDa Including tag.
UniProt:	Q96AX9
Pathways:	Notch Signaling

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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

