Datasheet for ABIN3090484

LRRC16A Protein (AA 1-1371) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	LRRC16A
Protein Characteristics:	AA 1-1371
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC16A protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTEESSDVPR ELIESIKDVI GRKIKISVKK KVKLEVKGDK VENKVLVLTS CRAFLVTARI PTKLELTFSY LEIHGVVCSK SAQMIVETEK CSISMKMASP EDVSEVLAHI GTCLRKIFPG LSPVRIMKKV SMEPSERLAS LQALWDSQTV AEQGPCGGFS QMYACVCDWL GFSYREEVQW DVDTIYLTQD TRELNLQDFS HLDHRDLIPI IAALEYNQWF TKLSSKDLKL STDVCEQILR VVSRSNRLEE LVLENAGLRT DFAQKLASAL AHNPNSGLHT INLAGNPLED RGVSSLSIQF AKLPKGLKHL NLSKTSLSPK GVNSLSQSLS ANPLTASTLV HLDLSGNVLR GDDLSHMYNF LAQPNAIVHL DLSNTECSLD MVCGALLRGC LQYLAVLNLS RTVFSHRKGK EVPPSFKQFF SSSLALMHIN LSGTKLSPEP LKALLLGLAC NHNLKGVSLD LSNCELRSGG AQVLEGCIAE IHNITSLDIS DNGLESDLST LIVWLSKNRS IQHLALGKNF NNMKSKNLTP VLDNLVQMIQ DEESPLQSLS LADSKLKTEV TIIINALGSN TSLTKVDISG NGMGDMGAKM LAKALQINTK LRTVIWDKNN ITAQGFQDIA VAMEKNYTLR FMPIPMYDAS QALKTNPEKT EDALQKIENY LLRNHETRKY LQEQAYRLQQ GIVTSTTQQM IDRICVKVQD HLNSLRNCGG DAIQEDLKSA

	ERLMRDAKNS KTLLPNLYHV GGASWAGASG LLSSPIQETL ESMAGEVTRV VDEQLKALLE SMVDAAENLC PNVMKKAHIR QDLIHASTEK ISIPRTFVKN VLLEQSGIDI LNKISEVKLT VASFLSDRIV DEILDALSHC HHKLADHFSR RGKTLPQQES LEIELAEEKP VKRSIITVEE LTEIERLEDL DTCMMTPKSK RKSIHSRMLR PVSRAFEMEF DLDKALEEVP IHIEDPPFPS LRQEKRSSGF ISELPSEEGK KLEHFTKLRP KRNKKQQPTQ AAVCAANIVS QDGEQNGLMG RVDEGVDEFF TKKVTKMDSK KWSTRGSESH ELNEGGDEKK KRDSRKSSGF LNLIKSRSKS ERPPTILMTE EPSSPKGAVR SPPVDCPRKD TKAAEHNGNS ERIEEIKTPD SFEESQGEEI GKVERSDSKS SPQAGRRYGV QVMGSGLLAE MKAKQEKRAA CAQKKLGNDA VSQDSSSPAL SGVERSDGGG AVPKLHPGLP ENRFGLGTPE KNTKAEPKAE AGSRSRSSSS TPTSPKPLLQ SPKPSLAARP VIPQKPRTAS RPDDIPDSPS SPKVALLPPV LKKVPSDKER DGQSSPQPSP RTFSQEVSRR SWGQQAQEYQ EQKQRSSSKD GHQGSKSNDS GEEAEKEFIF V **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 LRRC16A 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:

Product Details

	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.
Grade:	Crystallography grade

Target Details

Target:	LRRC16A
Alternative Name:	LRRC16A (LRRC16A Products)
Background:	Cell membrane-cytoskeleton-associated protein that plays a role in the regulation of actin polymerization at the barbed end of actin filaments. Prevents F-actin heterodimeric capping protein (CP) activity at the leading edges of migrating cells, and hence generates uncapped barbed ends and enhances actin polymerization, however, seems unable to nucleate filaments (PubMed:16054028). Plays a role in lamellipodial protrusion formations and cell migration (PubMed:19846667). {ECO:0000269|PubMed:16054028, ECO:0000269|PubMed:19846667}.
Molecular Weight:	152.5 kDa Including tag.
UniProt:	Q5VZK9

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)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process