Datasheet for ABIN3136258

CLASP2 Protein (AA 1-1286) (His tag)

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1 Image

Overview

Quantity:	1 mg
Target:	CLASP2
Protein Characteristics:	AA 1-1286
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLASP2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MRRLICKRIC DYKSFDDEES VDGNRPSSAA SAFKVPAPKT PGNPVSSARK PGSAGGPKVG GPSKEGGAGA VDEDDFIKAF TDVPSVQIYS SRELEETLNK IREILSDDKH DWDQRANALK KIRSLLVAGA AQYDCFFQHL RLLDGALKLS AKDLRSQVVR EACITVAHLS TVLGNKFDHG AEAIVPTLFN LVPNSAKVMA TSGCAAIRFI IRHTHVPRLI PLITSNCTSK SVPVRRRSFE FLDLLLQEWQ THSLERHAAV LVETIKKGIH DADAEARVEA RKTYMGLRNH FPGEAETLYN SLEPSYQKSL QTYLKSSGSV ASLPQSDRSS SSSQESLNRP FSSKWSTANP STVAGRVSVG GSKANPLPGS LQRSRSDIDV NAAAGAKAHH AAGQAVRSGR LGAGALNPGS YASLEDTSDK MDGTASDDGR VRAKLSTPLV AVGNAKTDSR GRSRTKMVSQ SQPGSRSGSP GRVLTTTALS TVSSGAQRVL VNSASAQKRS KIPRSQGCSR EASPSRLSVA RSSRIPRPSV SQGCSREASR ESSRDTSPVR SFQPLGPGYG ISQSSRLSSS VSAMRVLNTG SDVEEAVADA LLLGDIRTKK KPARRRYESY GMHSDDDANS DASSACSERS YSSRNGSIPT YMRQTEDVAE VLNRCASSNW SERKEGLLGL QNLLKNQRTL SRIELKRLCE IFTRMFADPH GKVFSMFLET LVDFIQVHKD

DLQDWLFVLL TQLLKKMGAD LLGSVQAKVQ KALDITRESF PNDLQFNILM RFTVDQTQTP SLKVKVAILK YIETLAKQMD PRDFTNSSET RLAVSRVITW TTEPKSSDVR KAAQSVLISL FELNTPEFTM LLGALPKTFQ DGATKLLHNH LRNTGNGTQS SMGSPLTRPT PRSPANWSSP LTSPTNTSQN TLSPSAFDYD TENMNSEDIY SSLRGVTEAI QNFSFRSQED MSEPVRRDPK KEDGDTICSG PGMSDPRAGG DAADGSQPAL DNKASLLHSM PLHSSPRSRD YNPYNYSDSI SPFNKSALKE AMFDDDADQF PDDLSLDHSD LVAELLKELS NHNERIEERK IALYELMKLT QEESFSVWDE HFKTILLLLL ETLGDKEPTI RALALKVLKE ILRHQPARFK NYAELTVMKT LEAHKDPHKE VVRSAEEAAS VLATSISPEQ CIKVLCPIIQ TADYPINLAA IKMQTKVIER VSKETLNMLL PEIMPGLIQG YDNSESSVRK ACVFCLVAVH AVIGDELKPH LSQLTGSKMK LLNLYIKRAQ TGSAGADPTA DVSGQS

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.
- Mouse Clasp2 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

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	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:	CLASP2
Alternative Name:	Clasp2 (CLASP2 Products)
Background:	Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules. Involved in the nucleation of noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and PHLDB2. This cortical microtubule stabilizing activity is regulated at least in part by phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic spindle. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex. {ECO:0000250|UniProtKB:O75122, ECO:0000269|PubMed:16914514}.
Molecular Weight:	141.7 kDa Including tag.
UniProt:	Q8BRT1
Pathways:	Microtubule Dynamics, Maintenance of Protein Location

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the

Application Details

	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

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