Datasheet for ABIN3135491

AZI1 Protein (AA 1-1060) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	AZI1
Protein Characteristics:	AA 1-1060
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AZI1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MKGSRTITAT PEGSPEAVDL SLIGLPPPMS QRPGSASATR SIFRSMSVAT GSEPRKKALE ATGPGGPRAI NNLRRSNSTT QVNQSWTGSP RPAEPTDFLM LFEGSTSGRR RVASLSKASS EKEATWNVLD EQPRGLALPA SAQSPSTLDS ALGPRRKECP LAPSFTANNR SNKGAVGNCV TTMVHNHYAS SKMVSPPKSS NQTAPSLNNI VKAAAREGGE GSDLGKPRKN LSSASQSARG TTGLLRRREV TEEEAERFIH QVNQAAVTIQ RWYRCQVQRR RAGAAALEHL LASKREGQRQ RLGGGNLLEL HRQEEAARKK AREEKARQAR QAAIQVLQQK RAQKASEAEH RRPKDRPETR APEQPRPMQE PGCVTHPKAN NAGASIYPTG PADPCPPASE SSPEQWQSPE DKPQDIHSQG EARQDLAVSG SSRGKARARA TLDDLLDTLK LLEEEPEPLP HPKAYHKDRY AWTDEEEDAN SLTADNLEKF GKLSAAPGPP DDGTLLSEAK LQSIMTFLDE MEKSGQERPA PWRESLVLEA GSGSEGSTSV MRLKLELEEK KQAMALLQRA LAQQRDLTVR RVKETEKELT RQLRQQKEQY EATIQRHLSF IDQLIEDKKV LSEKCEAVVA ELKHGDQRCR ERVAQMQEQH ELEIKKLKEL MSATEKIRRE KWINEKTKKI KEITVRGLEP EIQKLIAKHK QEVRRLRGLH EAELQQREEQ

	AAQRHLRQAE ELRQHLDRER EVLGQQERER AQQRFEQHLE QEQRALEQQR RRLYNEVAEE KERLGQQAAR QRAELEELRQ QLEESSAALT RALRAEFERS REEQERRHQM ELKALKDQLE AERQAWVASC AKKEEAWLLT RERELKEEIR KGRDQEIELV IHRLEADMTL AKEESERAAE SRVKRVRDKY ETELSELEQS ERKLQERCSE LKGRLGEAEG EKERLQSLVR QKEKELEDLR AVNTQMCSER ASLAQVVRQE FAEQLAASQE ETQRVKVELA ELQARQQVEL DEVHRRVKTA LARKEAAVNS LRKQHEAAVK RADHLEELLE QHKGSSLSSK **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 Cep131 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:	AZI1
Alternative Name:	Cep131 (AZI1 Products)
Background:	Component of centriolar satellites contributing to the building of a complex and dynamic network required to regulate cilia/flagellum formation. In proliferating cells, MIB1-mediated ubiquitination induces its sequestration within centriolar satellites, precluding untimely cilia formation initiation. In contrast, during normal and ultraviolet or heat shock cellular stress-induced ciliogenesis, its non-ubiquitinated form is rapidly displaced from centriolar satellites and recruited to centrosome/basal bodies in a microtubule- and p38 MAPK-dependent manner. Acts also as a negative regulator of BBSome ciliary trafficking (By similarity). Plays a role in sperm flagellar formation, may be involved in the regulation of intraflagellar transport (IFT) and/or intramanchette (IMT) trafficking, which are important for axoneme extension and/or cargo delivery to the nascent sperm tail (PubMed:24415959). Required for optimal cell proliferation and cell cycle progression, may play a role in the regulation of genome stability and centriole duplication in non-ciliogenic cells (By similarity). Involved in centriole duplication (PubMed:26297806). Required for CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2 (By similarity). {ECO:0000250|UniProtKB:Q9UPN4, ECO:0000269|PubMed:24185901, ECO:0000269|PubMed:24415959, ECO:0000269|PubMed:26297806}.
Molecular Weight:	121.3 kDa Including tag.
UniProt:	Q62036
Pathways:	M Phase

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.

Application Details

Comment:	Protein has not been tested for activity yet. 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

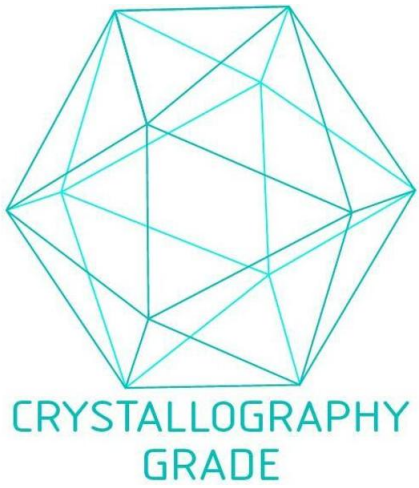

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process