

Datasheet for ABIN7563937
AZI1 Protein (AA 1-1060) (His tag)



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Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | AZI1 |
| Protein Characteristics: | AA 1-1060 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This AZI1 protein is labelled with His tag. |

Product Details

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|-----------|--|
| Purpose: | Custom-made recombinant Cep131 Protein expressed in mammalian cells. |
| Sequence: | MKGSRTITAT PEGSPEAVDL SLIGLPPMS QRPGSASATR SIFRSMSVAT GSEPRKKALE ATGPGGPRAI>NNLRRSNSTT QVNQSWTGSP RPAEPTDFLM LFEGSTSGRR RVASLSKASS EKEATWNVLD EQPRGLALPA SAQSPSTLDS ALGPRRKECP LAPSFTANNR SNKGAVGNCV TTMVHNHYAS SKMVSPPKSS NQTAPSLNNI VKAAAAREGGE GSDLGKPRKN LSSASQSARG TTGLLRREV TEEEAERFIH QVNQAAVTIQ RWYRCQVQRR RAGAAALEHL LASKREGQRQ RLGGGNLLEL HRQEEAARKK AREEKARQAR QAAIQVLQOK RAQKASEAEH RRPKDRPETR APEQPRPMQE PGCVTHPKAN NAGASIYPTG PADPCPPASE SSPEQWQSPE DKPQDIHSQG EARQDLAVSG SSRGKARARA TLDDLLDTLK LLEEEPEPLP HPKAYHKDRY AWTDEEDAN SLTADNLEKF GKLSAAGPP DDGTLSEAK LQSIMTFLDE MEKSGQERPA PWRESLVLEA GSGSEGSTSV MRLKLELEEK KQAMALLQRA LAQRDLTVR RVKETEKELT RQLRQKEQY EATIQRHLSF IDQLIEDKKV LSEKCEAVVA ELKHGDQRCR ERVAQMREQH ELEIKKLEL MSATEKIRRE KWINEKTKKI KEITVRGLEP EIQLIAKHK QEVRRRLGLH EAELQQREEQ |

Product Details

AAQRHLRQAE ELRQHLDREER EVLGQQRER AQQRFEQHLE QEQRALQQR 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 LKQHEAAVK RADHLEELLE QHKGSSLSK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: AZI1

Alternative Name: Cep131 ([AZI1 Products](#))

Background: Centrosomal protein of 131 kDa (5-azacytidine-induced protein 1) (Pre-acrosome localization protein 1),FUNCTION: Component of centriolar satellites contributing to the building of a

Target Details

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). Essential for maintaining proper centriolar satellite integrity (By similarity).
{ECO:0000250|UniProtKB:Q9UPN4, ECO:0000269|PubMed:24185901, ECO:0000269|PubMed:24415959, ECO:0000269|PubMed:26297806}.

Molecular Weight: 120.3 kDa

UniProt: [Q62036](#)

Pathways: [M Phase](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months