Datasheet for ABIN7553567

AZI1 Protein (AA 1-1083) (His tag)

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Overview

Quantity:	1 mg
Target:	AZI1
Protein Characteristics:	AA 1-1083
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AZI1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CEP131 Protein expressed in mammalian cells.
Sequence:	MKGTRAIGSV PERSPAGVDL SLTGLPPPVS RRPGSAATTK PIVRSVSVVT GSEQKRKVLE ATGPGGSQAI NNLRRSNSTT QVSQPRSGSP RPTEPTDFLM LFEGSPSGKK RPASLSTAPS EKGATWNVLD DQPRGFTLPS NARSSSALDS PAGPRRKECT VALAPNFTAN NRSNKGAVGN CVTTMVHNRY TPSERAPPLK SSNQTAPSLN NIIKAATCEG SESSGFGKLP KNVSSATHSA RNNTGGSTGL PRRKEVTEEE AERFIHQVNQ ATVTIQRWYR HQVQRRGAGA ARLEHLLQAK REEQRQRSGE GTLLDLHQQK EAARRKAREE KARQARRAAI QELQQKRALR AQKASTAERG PPENPRETRV PGMRQPAQEL SPTPGGTAHQ ALKANNTGGG LPAAGPGDRC LPTSDSSPEP QQPPEDRTQD VLAQDAAGDN LEMMAPSRGS AKSRGPLEEL LHTLQLLEKE PDVLPRPRTH HRGRYAWASE VTTEDDASSL TADNLEKFGK LSAFPEPPED GTLLSEAKLQ SIMSFLDEME KSGQDQLDSQ QEGWVPEAGP GPLELGSEVS TSVMRLKLEV EEKKQAMLLL QRALAQQRDL TARRVKETEK ALSRQLQRQR EHYEATIQRH LAFIDQLIED KKVLSEKCEA VVAELKQEDQ RCTERVAQAQ AQHELEIKKL KELMSATEKA RREKWISEKT KKIKEVTVRG LEPEIQKLIA

Product Details

	RHKQEVRRLK SLHEAELLQS DERASQRCLR QAEELREQLE REKEALGQQE RERARQRFQQ HLEQEQWALQ QQRQRLYSEV AEERERLGQQ AARQRAELEE LRQQLEESSS ALTRALRAEF EKGREEQERR HQMELNTLKQ QLELERQAWE AGRTRKEEAW LLNREQELRE EIRKGRDKEI ELVIHRLEAD MALAKEESEK AAESRIKRLR DKYEAELSEL EQSERKLQER CSELKGQLGE AEGENLRLQG LVRQKERALE DAQAVNEQLS SERSNLAQVI RQEFEDRLAA SEEETRQAKA ELATLQARQQ LELEEVHRRV KTALARKEEA VSSLRTQHEA AVKRADHLEE LLEQHRRPTP STK **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 (PubMed:17954613, PubMed:24185901). In proliferating cells, MIB1-mediated ubiquitination induces its sequestration within centriolar satellites, precluding untimely cilia formation initiation (PubMed:24121310). 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 (PubMed:24121310, PubMed:26616734). Acts also as a negative regulator of BBSome ciliary trafficking (PubMed:24550735). 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 (By similarity). Required for optimal cell proliferation and cell cycle progression, may play a role in the regulation of genome stability in non-ciliogenic cells (PubMed:22797915, PubMed:26297806). Involved in centriole duplication (By similarity). Required for CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2 (PubMed:26297806). Essential for maintaining proper centriolar satellite integrity (PubMed:30804208). {ECO:0000250|UniProtKB:Q62036, ECO:0000269|PubMed:17954613, ECO:0000269|PubMed:22797915, ECO:0000269|PubMed:24121310, ECO:0000269|PubMed:24185901, ECO:0000269|PubMed:24550735, ECO:0000269|PubMed:26297806, ECO:0000269|PubMed:26616734, ECO:0000269|PubMed:30804208}.
Molecular Weight:	122.1 kDa
UniProt:	Q9UPN4
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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months