Datasheet for ABIN7563758

TTBK2 Protein (AA 1-1243) (His tag)

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Overview

Quantity:	1 mg
Target:	TTBK2
Protein Characteristics:	AA 1-1243
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTBK2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ttbk2 Protein expressed in mammalian cells.
Sequence:	MSGGGEQPDI LSVGILVKER WKVLRKIGGG GFGEIYDALD MLTRENVALK VESAQQPKQV LKMEVAVLKK LQGKDHVCRF IGCGRNDRFN YVVMQLQGRN LADLRRSQSR GTFTISTTLR LGKQILESIE SIHSVGFLHR DIKPSNFAMG RFPSTCRKCF MLDFGLARQF TNSCGDVRPP RAVAGFRGTV RYASINAHRN REMGRHDDLW SLFYMLVEFV VGQLPWRKIK DKEQVGSIKE RYDHRLMLKH LPPEFSTFLD HISSLDYFTK PDYQLLTSVF DNSIKTFGVI ESDPFDWEKS GTDGSLTTTT TSATPQLHTR LTPAAIGIAN ATPIPGDLLR ENTDEVFPDE QLSDGENGIP VGVSPDKLPG SLGHPRPQEK DVWEEMDINK NKIKLGICKA ATEEENSHGQ VNGILNAPSL GSPIRVRSEI TQPDRDVPLV RKLRSIHSFE LEKRLTLEPK PDTDKFLETC MEKMQKDSSA GKEPVPPALP HKPCVPVVTH TDHIWHYDDE YLPDASKPAS ANTPEQADGG GSNGFIAVNL SSCKQEVDSK EWVIVDKEQD LQDFRTNEVL GHKTTGSPSD EEPEVLQVLE GSPQDEKIQV GPWTDNHHLK KESSGVVLAL SAECPATAAS ELYTDRLDLQ AGAASQFITV TPTSPMEAQA EGPLTAITIP RPSVASTQST SGSFHYGPQP EKKDLQPLEP TVELYSPREN FSGLVVTEGE

Product Details

	LASGGSRVDL GLQIDHTGHD MLPNMRDGDT SQDLGPKDPP DHNRLAVKEF EHLPGETEER SLLLGSENED ERLSKGQHCI EVSSPGELVT AERAQLAATE PLHVSETQNC SVLPNQDKTH EIMKLLAVGT SEISPQAIDP HAEGQIGQMA AMQKNKLFKD DGIQSESLPR QQGDLSAFLH QEGKREKVVP RNGELYHCVS ENEHGPPTRK DMLRSSFVTR HSRIPVLAQE IDSTFESSSA ISAKEKLLQK KAYQPEIVKL LVEKRQFKSF LGDLSSASDK LIEEKLAAVP VPFSEEEVFA PFSRLAADSH LSRSVEDSFL SPIISQARKS KIPRPVSWVS TDQINGSASP QFLPRPPPGK PPVRPGVEAR LRRYKVLGSS NSDSDLFSRL AQILQNGSQK SRSTTQCKSP GSPHNPKTPP KSPVVPRRSP SASPRSSSLP RTSSSSPSRA GRPHHDQRSS SPHLGRSKSP PSHSGSSSSR RSCQQEHCKP SKNGPKGSGS LHHHSTSSKT PPGKSKPASK LSR **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:	TTBK2

Target Details

Alternative Name:	Ttbk2 (TTBK2 Products)
Background:	Tau-tubulin kinase 2 (EC 2.7.11.1) (Protein bartleby),FUNCTION: Serine/threonine kinase that acts as a key regulator of ciliogenesis: controls the initiation of ciliogenesis by binding to the distal end of the basal body and promoting the removal of CCP110, which caps the mother centriole, leading to the recruitment of IFT proteins, which build the ciliary axoneme. Has some substrate preference for proteins that are already phosphorylated on a Tyr residue at the +2 position relative to the phosphorylation site. Able to phosphorylate tau on serines in vitro (PubMed:23141541). Phosphorylates MPHOSPH9 which promotes its ubiquitination and proteasomal degradation, loss of MPHOSPH9 facilitates the removal of the CP110-CEP97 complex (a negative regulator of ciliogenesis) from the mother centrioles, promoting the initiation of ciliogenesis (By similarity). {ECO:0000250|UniProtKB:Q6IQ55, ECO:0000269|PubMed:11257498, ECO:0000269|PubMed:23141541}.
Molecular Weight:	136.8 kDa
UniProt:	Q3UVR3

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