

Datasheet for ABIN3135103

TTBK2 Protein (AA 1-1243) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	TTBK2
Protein Characteristics:	AA 1-1243
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTBK2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MSGGGEQPD I LSVGILVKER WKVLRKIGGG GFGEIYDALD MLTRENVALK VESAQQPKQV LKMEVAVLKK LQKGDHVCRF IGCGRNDRFN YVVMQLQGRN LADLRRSQSR GTFTISTTLR LGKQILESIE SIHSVGF LHR DIKPSNFAMG RFPSTCRKCF MLDFGLARQF TNSCGDVRPP RAVAGFRGT V RYASINAH RN REMGRHDDLW SLFYMLVEFV VGQLPWRKIK DKEQVGSIKE RYDHRLMLKH LPPEFSTFLD HISSLDYFTK PDYQLLTSVF DNSIKTFGVI ESDPFDWEKS GTDGSLTTTT TSATPQLHTR LTPAAIGIAN ATPIPGDLLR ENTDEVFPDE QLSDGENGIP VGVS PDKLP G SLGHPRPQEK DVWEEMDINK NIKL GICKA ATEEENSHGQ VNGILNAPSL GSPIRVRSEI TQPDRDVPLV RKLRSIHSFE LEKRLTLEPK PDTDKFLET C MEKMQKDSSA GKEPVPPALP HKPCVPV VTH TDHIW HYDDE YLPDASKPAS ANTPEQADGG GSNGFI AVNL SSCKQEVD SK EWWIVDKEQD LQDFRTNEVL GHKTTGSPSD EEPEVLQVLE GSPQDEKIQV GPWTDNHH LK KESSGVVLAL SAEC PATAAS ELYTDRLDLQ AGAASQFITV TPTSPMEAQA EGPLTAITIP RPSVASTQST SGSFHYGPQP EK KDLQPLEP TVELYSPREN FSGLVWTEGE
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LASGGSRVDL GLQIDHTGHD MLPNMRDGDG SLDLGPDKPP DHNRLAVKEF EHLPGETEER
SLLLGSENEE ERLSKGQHCI EVSSPGELVT AERAQLAATE PLHVSETQNC SVLPNQDKTH
EIMKLLAVGT SEISPQAIDP HAEGQIGQMA AMQKNKLFKD DGIQSESLPR QQGDLSAFLH
QEGKREKVVP RNgELYHCVS ENEHGPPTK DMLRSSFVTR HSRIPVLAQE IDSTFESSA
ISAKEKLLQK KAYQPEIVKL LVEKRQFKSF LGDLSSASDK LIEEKLAAPV VPFSEEEVFA
PFSRLAADSH LSRSVEDSFL SPIISQARKS KIPRPVSWVS TDQINGSASP QFLPRPPPGK
PPVRPGVEAR LRRYKVLGSS NSDSLFSRL AQILQNGSQK SRSTTQCKSP GSPHNPKTPP
KSPVPPRRSP SASPRSSSLP RTSSSSPSRA GRPHHDQRSS SPHLGRSKSP PSHSGSSSSR
RSCQQEHCKP SKNGPKGSGS LHHHSTSSKT PPGKSKPASK LSR

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 Ttbk2 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 receipt 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

Product Details

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: TTBK2

Alternative Name: Ttbk2 ([TTBK2 Products](#))

Background: 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. {ECO:0000269|PubMed:11257498, ECO:0000269|PubMed:23141541}.

Molecular Weight: 137.7 kDa Including tag.

UniProt: [Q3UVR3](#)

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 guarantee though.

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