

Datasheet for ABIN3096114

TTBK2 Protein (AA 1-1244) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	TTBK2
Protein Characteristics:	AA 1-1244
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTBK2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MSGGGEQLDI LSVGILVKER WKVLRKIGGG GFGEIYDALD MLTRENVALK VESAQQPKQV</p> <p>LKMEVAVLKK LQGKDHVCRF IGCGRNDRFN YVVMQLQGRN LADLRRSQR GTFTISTTLR</p> <p>LGRQILESIE SIHSVGLHR DIKPSNFAMG RFPSTCRKCY MLDFGLARQF TNSCGDVRPP</p> <p>RAVAGFRGTV RYASINAHNRN REMGRHDDLW SLFYMLVEFV VGQLPWRKIK DKEQVGSIKE</p> <p>RYDHRLMLKH LPPEFSIFLD HISSLDYFTK PDYQLLTSVF DNSIKTFGVI ESDPFDWEKT</p> <p>GNDGSLTTTT TSTTPQLHTR LTPAAIGIAN ATPIPGDLLR ENTDEVFPDE QLSDGENGIP</p> <p>VGVSPDKLPG SLGHPRPQEK DVWEEMDANK NIKILGICKA ATEEENSHGQ ANGLLNAPSL</p> <p>GSPiRVRSEI TQPDRIPLV RKLRSIHSFE LEKRLTLEPK PDTDKFLETC LEKMQKDTSA</p> <p>GKESILPALL HKPCVPAVSR TDHIWHYDEE YLPDASKPAS ANTPEQADGG GSNGFIAVNL</p> <p>SSCKQEIDSK EWWIVDKQD LQDFRTNEAV GHKTTGSPSD EEPEVLQVLE ASPQDEKLQL</p> <p>GPWAENDHLK KETSGVVLAL SAEGPPTAAS EQYTDRLQL PGAASQFIAA TPTSLMEAQA</p>

EGPLTAITIP RPSVASTQST SGSFHCQQP EKKDLQPMEP TVELYSPREN FSGLVWTEGE
PPSGGSRTDL GLQIDHIGHD MLPNIRESNK SQDLGPKELP DHNRLVVREF ENLPGETEEK
SILLESND EKL SRGQHCI EISSLPGDLV IVEKDHSATT EPLDVTKTQT FSVVPNQDKN
NEIMKLLTVG TSEISSRDID PHVEGQIGQV AEMQKNKISK DDDIMSEDLG GHQGDLSFTL
HQEGKREKIT PRNGELFHCV SENEHGAPTR KDMVRSSFVT RHSRIPVLAQ EIDSTLESSS
PVSAKEKLLQ KKAYQPD LVK LLVEKRQFKS FLGDLSSASD KLEEKLATV PAPFCEEEVL
TPFSRLTVDS HLSRSAEDSF LSPISQSRK SKIPRPVSWV NTDQVNSSTS SQFFPRPPPG
KPPTRPGEA RLRRYKVLGS SNSDSLFSR LAQILQNGSQ KPRSTTQCKS PGSPHNPKTP
PKSPVPPRRS PSASPRSSSL PRTSSSSPSR AGRPHHDQRS SSPHLGRSKS PPSHSGSSSS
RRSCQGEHCK PSKNGLKSG SLHHHSASTK TPQGKSKPAS KLSR

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Product Details

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	TTBK2
Alternative Name:	TTBK2 (TTBK2 Products)
Background:	<p>Tau-tubulin kinase 2 (EC 2.7.11.1),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 (PubMed:30375385). {ECO:0000269 PubMed:21548880, ECO:0000269 PubMed:23141541, ECO:0000269 PubMed:30375385}.</p>
Molecular Weight:	137.4 kDa
UniProt:	Q6IQ55

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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months