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Datasheet for ABIN3093477
KIF16B Protein (AA 1-1317) (Strep Tag)

Overview

Quantity:	1 mg
Target:	KIF16B
Protein Characteristics:	AA 1-1317
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF16B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MASVKVAVRV RPMNRREKDL EAKFIIQMEK SKTTITNLKI PEGGTGDSGR ERTKTFTYDF
SFYSADTKSP DYVSQEMVFK TLGTDVVKSA FEGYNACVFA YGQTGSGKSY TMMGNSGDSG
LIPRICEGLF SRINETTRWD EASFRTEVSY LEIYNERVRD LLRRKSSKTF NLRVREHPKE
GPYVEDLSKH LVQNYGDVEE LMDAGNINRT TAATGMNDVS SRSHAFTIK FTQAKFDSEM
PCETVSKIHL VDLAGSERAD ATGATGVRLK EGGNINKSLV TLGNVISALA DLSQDAANTL
AKKKQVFVPY RDSVLTWLLK DSLGGNSKTI MIATISPADV NYGETLSTLR YANRAKNIIN
KPTINEDANV KLIRELRAEI ARLKTLLAQQ NQIALLDSP ALSMEEKLQQ NEARVQELTK
EWTNKWNETQ NILKEQTLAL RKEGIGVVD SELPHLIGID DLLLSTGIIL YHLKEGQTYV
GRDDASTEQD IVLHGLDLES EHCIFENIGG TVTLIPLSGS QCSVNGVQIV EATHLNQGAV
ILLGRTNMFR FNHPKEAAKL REKRKSGLLS SFSLSM TDLS KSRENLSAVM LYNPGLEFER
QQREELEKLE SKRKLIEEME EKQKSDK AEL ERMQQEVETQ RKETEIVQLQ IRKQEESLKR
RSFHENK LK DLLAEKEKFE EERLREQQEI ELQKKRQEEE TFLRVQEELQ RLKELNNNEK

AEKFQIFQEL DQLQKEKDEQ YAKLELEKKR LEEQEKEQVM LVAHLEEQLR EKQEMIQLLR
RGEVQWVEEE KRDLEGIRES LLRVKEARAG GDEDEGEELEK AQLRFFEFKR RQLVKLVNLE
KDLVQQKDIL KKEVQEEQEI LECLKCEHDK ESRLLLEKHDE SVTDVTEVPQ DFEKIKPVEY
RLQYKERQLQ YLLQNHLPTL LEEKQRAFEI LDRGPLSLDN TLYQVEKEME EKEEQLAQYQ
ANANLQKLQ ATFEFTANIA RQEEKVRKKE KEILESREKQ QREALERALA RLERRHSALQ
RHSTLGMEIE EQRQKSLASN SGSREQSLQ ASLEAEQEAL EKDQERLEYE IQQLKQKIYE
VDGVQKDHHG TLEGKVASSS LPVSAEKSHL VPLMDARINA YIEEEVQRRR QDLHRVISEG
CSTSADTMKD NEKLHNGTIQ RKLKYERMVS RSLGANPDDL KDPIKISIPR YVLCGQGKDA
HFEEVKITV LDETWTVFRR YSRFREMHTK LKLKYAELAA LEFPPKKLFG NKDERVIAER
RSHLEKYLRD FFSVMLQSAT SPLHINKVGL TSKHTICEF SPFFKKG VFD YSSHGTG

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 -

Product Details

all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	KIF16B
Alternative Name:	KIF16B (KIF16B Products)
Background:	Kinesin-like protein KIF16B (Sorting nexin-23),FUNCTION: Plus end-directed microtubule-dependent motor protein involved in endosome transport and receptor recycling and degradation. Regulates the plus end motility of early endosomes and the balance between recycling and degradation of receptors such as EGF receptor (EGFR) and FGF receptor (FGFR). Regulates the Golgi to endosome transport of FGFR-containing vesicles during early development, a key process for developing basement membrane and epiblast and primitive endoderm lineages during early postimplantation development. {ECO:0000269 PubMed:15882625}.
Molecular Weight:	152.0 kDa
UniProt:	Q96L93
Pathways:	EGFR Signaling Pathway

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: 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!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)
