Datasheet for ABIN3093477

KIF16B Protein (AA 1-1317) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	KIF16B
Protein Characteristics:	AA 1-1317
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF16B protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MASVKVAVRV RPMNRREKDL EAKFIIQMEK SKTTITNLKI PEGGTGDSGR ERTKTFTYDF SFYSADTKSP DYVSQEMVFK TLGTDVVKSA FEGYNACVFA YGQTGSGKSY TMMGNSGDSG LIPRICEGLF SRINETTRWD EASFRTEVSY LEIYNERVRD LLRRKSSKTF NLRVREHPKE GPYVEDLSKH LVQNYGDVEE LMDAGNINRT TAATGMNDVS SRSHAIFTIK FTQAKFDSEM PCETVSKIHL VDLAGSERAD ATGATGVRLK EGGNINKSLV TLGNVISALA DLSQDAANTL AKKKQVFVPY RDSVLTWLLK DSLGGNSKTI MIATISPADV NYGETLSTLR YANRAKNIIN KPTINEDANV KLIRELRAEI ARLKTLLAQG NQIALLDSPT ALSMEEKLQQ NEARVQELTK EWTNKWNETQ NILKEQTLAL RKEGIGVVLD SELPHLIGID DDLLSTGIIL YHLKEGQTYV GRDDASTEQD IVLHGLDLES EHCIFENIGG TVTLIPLSGS QCSVNGVQIV EATHLNQGAV ILLGRTNMFR FNHPKEAAKL REKRKSGLLS SFSLSMTDLS KSRENLSAVM LYNPGLEFER QQREELEKLE SKRKLIEEME EKQKSDKAEL ERMQQEVETQ RKETEIVQLQ IRKQEESLKR

RSFHIENKLK DLLAEKEKFE EERLREQQEI ELQKKRQEEE TFLRVQEELQ RLKELNNNEK AEKFQIFQEL DQLQKEKDEQ YAKLELEKKR LEEQEKEQVM LVAHLEEQLR EKQEMIQLLR RGEVQWVEEE KRDLEGIRES LLRVKEARAG GDEDGEELEK AQLRFFEFKR RQLVKLVNLE KDLVQQKDIL KKEVQEEQEI LECLKCEHDK ESRLLEKHDE SVTDVTEVPQ DFEKIKPVEY RLQYKERQLQ YLLQNHLPTL LEEKQRAFEI LDRGPLSLDN TLYQVEKEME EKEEQLAQYQ ANANQLQKLQ ATFEFTANIA RQEEKVRKKE KEILESREKQ QREALERALA RLERRHSALQ RHSTLGMEIE EQRQKLASLN SGSREQSGLQ ASLEAEQEAL EKDQERLEYE IQQLKQKIYE VDGVQKDHHG TLEGKVASSS LPVSAEKSHL VPLMDARINA YIEEEVQRRL QDLHRVISEG CSTSADTMKD NEKLHNGTIQ RKLKYERMVS RSLGANPDDL KDPIKISIPR YVLCGQGKDA HFEFEVKITV LDETWTVFRR YSRFREMHKT LKLKYAELAA LEFPPKKLFG NKDERVIAER RSHLEKYLRD FFSVMLQSAT SPLHINKVGL TLSKHTICEF SPFFKKGVFD 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 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 -

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 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:	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.

Application Details

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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months