

Datasheet for ABIN3093425

## KIF4A Protein (AA 1-1232) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	KIF4A
Protein Characteristics:	AA 1-1232
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF4A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p> MKEEVKGIPV RVALRCRPLV PKEISEGCQM CLSFVPGEPQ VVVGTDKSFT YDFVFDPSTE  QEEVFNTAVA PLIKGVFKGY NATVLAYGQT GSGKTYSMGG AYTAEQENEP TVGVIPRVIQ  LLFKEIDKKS DFEFTLKVS Y LEIYNEEILD LLCPSREKAQ INIREDPKEG IKIVGLTEKT VLVALDTVSC  LEQGNNRSTV ASTAMNSQSS RSHAFTISL EQRKKS DKNS SFRSKLHLVD LAGSERQKKT  KAEGDRLKEG ININRGLLCL GNVISALGDD KKGGFVPYRD SKLTRLLQDS LGGNSHTLMI  ACVSPADSNL EETLNTLRYA DRARKIKNKP IVNIDPQTAE LNHLKQQVQQ LQVLLLQAHG  GTLPGSITVE PSENLQSLME KNQSLVEENE KLSRGLSEAA GQTAQMLERI ILTEQANEKM  NAKLEELRQH AACKLDLQKL VETLEDQELK ENVEIICNLQ QLITQLSDET VACMAAAIDT  AVEQEAQVET SPETSRSSDA FTTQHALRQA QMSKELVELN KALALKEALA RKMTQNDSQL  QPIQYQYQDN IKELELEVIN LQKEKEELVL ELQTAKKDAN QAKLSERRRK RLQELEGQIA  DLKKKLNEQS KLLKLKESTE RTVSKLNQEI RMMKNQRVQL MRQMKEDA EK FRQWKQKKDK </p>

EVIQLKERDR KRQYELLKLE RNFQKQSNVL RRKTEEAAAA NKRLKDALQK QREVADKRKE  
TQSRGMEGTA ARVKNWLGNE IEVMVSTEEA KRHLNDLLED RKILAQDVAQ LKEKKESGEN  
PPPKLRRRTF SLTEVRGQVS ESEDSITKQI ESLETEMEFR SAQIADLQK LLDASEDRP  
KQRWENIATI LEAKCALKYL IGELVSSKIQ VSKLESSLKQ SKTSCADMQK MLFEERNHFA  
EIETELQAEI VRMEQQHQEK VLYLLSQLQQ SQMAEKQLEE SVSEKEQQLL STLCQDEEL  
EKMREVCEQN QQLLRENEII KQKLTLLQVA SRQKHLPKDT LLSPDSSFY VPPKPKPSRV  
KEKFLEQSMID IEDLYKCEH SVNEHEDGDG DDDEGDDEEW KPTKLKVSQR KNIQGCSCKG  
WCGNKQCGCR KQKSDCGVDC CCDPTKCRNR QQGKDSLGTV ERTQDSEGSF KLEDPTVTP  
GLSFFNPVCA TPNSKILKEM CDVEQVLSKK TPPAPSPFDL PELKHVATEY QENKAPGKKK  
KRALASNTSF FSGCSPIEEE AH

**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.**

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### 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:	KIF4A
Alternative Name:	KIF4A ( <a href="#">KIF4A Products</a> )
Background:	Chromosome-associated kinesin KIF4A (Chromokinesin-A),FUNCTION: Iron-sulfur (Fe-S) cluster binding motor protein that has a role in chromosome segregation during mitosis (PubMed:29848660). Translocates PRC1 to the plus ends of interdigitating spindle microtubules during the metaphase to anaphase transition, an essential step for the formation of an organized central spindle midzone and midbody and for successful cytokinesis (PubMed:15297875, PubMed:15625105). May play a role in mitotic chromosomal positioning and bipolar spindle stabilization (By similarity). {ECO:0000250 UniProtKB:P33174, ECO:0000269 PubMed:15297875, ECO:0000269 PubMed:15625105, ECO:0000269 PubMed:29848660}.
Molecular Weight:	139.9 kDa
UniProt:	<a href="#">O95239</a>

## 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

Application Details

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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months