

Datasheet for ABIN3131055 KIF7 Protein (AA 1-1348) (Strep Tag)



Overview

Quantity:	250 μg
Target:	KIF7
Protein Characteristics:	AA 1-1348
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF7 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MGLEAQRLPG AEEAPVRVAL RVRPLLPKEL LHGHQSCLRV EPERGRITLG RDRHFGFHVV
	LGEDTGQEAV YQACVQPLLE AFFEGFNATV FAYGQTGSGK TYTMGEASVA SLHEDEQGII
	PRAMAEAFKL IDENDLLDCL VHVSYLELYK EEFRDLLEVG TASRDIQLRE DDRGNVVLCG
	VKEVDVEGLD EVLSLLEMGN AARHTGATHF NRLSSRSHTV FTVTLEQRGR TPSRLPRPAA
	GHLLVSKFHF VDLAGSERVL KTGSTGERLK ESIQINSTLL ALGNVISALG DPQRRGSHIP
	YRDSKITRIL KDSLGGNAKT VMIACVSPSS SDFDETLNTL NYASRAQNIR NRATVNWHPE
	AERVPEEQAA GARGPPRHRS ETRIIHRGRR VPCPAVGSAA VAAGLGAECA RCRARTSAAY
	SLLRELQAEP GLPGAAARKV RDWLCAVEGE RSTLSSASGP DSGIESAPAE DQAAQGTSGR
	KGDEGTQQLL TLQSQVARLE EENRDFLAAL EDAMEQYKLQ SDRLREQQEE MVELRLRLEL
	AQPGWGAPGL LQGLPPGSFV PRPHTAPLGG AHTHMLGMMP STCLPGEEVS SEQQVVSGKE
	VKAEVLAQAD KLRSASSTTS EEEGEEEEEE EEEEEEPPRR TLYLRRNGIS NWSQRAGLSP

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3131055 | 02/25/2025 | Copyright antibodies-online. All rights reserved. GSPPDRKGPE VCPEEPAAAI PAPQAVGSGK VPVQTRQAPA AMASEWRLAQ AQQKIRELAI NIRMKEELIG ELVRTGKAAQ ALNRQHSQRI RELEQEAERV RAELCEGQRQ LRELEGREPQ DASERSRLQE FRKRVAAAQS QVQVLKEKKQ ATERLVSLSA QSETRLQELE RNVQLMRRQQ GQLQRRLREE TEQKRRLETE MNKRQHRVKE LELKHEQQQK ILKIKTEEIA AFQRKRRSGS NGSVVSLEQQ QKIEEQKKWL DQEMEKVLQQ RRALEELGEE LRKREVILAK KEALMQEKTG LESKRLRSSQ ALNEDIVRVS SRLEHLEKEL SEKSGQLRQG SAQNQQQIRG EIDTLRQEKD SLLKQRLEID SKLRQGSLLS PEEERTLFQL DEAIEALDAA IEYKNEAITC RQRVLRASAS LLSQCEMNLM AKLSYLSSSE TRALLCKYFD KVVTLREEQH QQQIAFSELE MQLEEQQRLV YWLEVALERQ RLEMDRQLTL QQKEHEQNVQ LLLQQGRDHL GEGLADSKRQ YEARIHALEK ELGRHMWINQ ELKQKLSAGS TAGQSQGCER RSLCLENRQC LGNEDGLHPA APEPLWQSSL LEGVSRVWDE SRDLVHAPLP LTWKRSSLCS EQGSSEESRV RETTEPPVGR VLPMGEVGLS WNFGPLPKPR WEPRRTSPGM IDVRKNPL

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 posttranslational 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

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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

KIF7
Kif7 (KIF7 Products)
Kinesin-like protein KIF7,FUNCTION: Essential for hedgehog signaling regulation: acts both as a
negative and a positive regulator of sonic hedgehog (Shh) and Indian hedgehog (Ihh) pathways,
acting downstream of SMO, through both SUFU-dependent and -independent mechanisms.
Involved in the regulation of microtubular dynamics. Required for proper organization of the
ciliary tip and control of ciliary localization of SUFU-GLI2 complexes. Required for localization of
GLI3 to cilia in response to Shh. Negatively regulates Shh signaling by preventing inappropriate
activation of the transcriptional activator GLI2 in the absence of ligand. Positively regulates Shh
signaling by preventing the processing of the transcription factor GLI3 into its repressor form.
In keratinocytes, promotes the dissociation of SUFU-GLI2 complexes, GLI2 nuclear
translocation and Shh signaling activation. Involved in the regulation of epidermal
differentiation and chondrocyte development. {ECO:0000269 PubMed:19549984,
ECO:0000269 PubMed:19592253, ECO:0000269 PubMed:19666503,
ECO:0000269 PubMed:21795282, ECO:0000269 PubMed:23034632,
EC0:0000269 PubMed:24952464}.
151.6 kDa
B7ZNG0

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Target Details	
Pathways:	Hedgehog Signaling
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: Buffer:	Liquid 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