antibodies

Datasheet for ABIN3093408 KIF2A Protein (AA 1-706) (Strep Tag)



Overview

Quantity:	1 mg
Target:	KIF2A
Protein Characteristics:	AA 1-706
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF2A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MATANFGKIQ IGIYVEIKRS DGRIHQAMVT SLNEDNESVT VEWIENGDTK GKEIDLESIF
	SLNPDLVPDE EIEPSPETPP PPASSAKVNK IVKNRRTVAS IKNDPPSRDN RVVGSARARP
	SQFPEQSSSA QQNGSVSDIS PVQAAKKEFG PPSRRKSNCV KEVEKLQEKR EKRRLQQQEL
	REKRAQDVDA TNPNYEIMCM IRDFRGSLDY RPLTTADPID EHRICVCVRK RPLNKKETQM
	KDLDVITIPS KDVVMVHEPK QKVDLTRYLE NQTFRFDYAF DDSAPNEMVY RFTARPLVET
	IFERGMATCF AYGQTGSGKT HTMGGDFSGK NQDCSKGIYA LAARDVFLML KKPNYKKLEL
	QVYATFFEIY SGKVFDLLNR KTKLRVLEDG KQQVQVVGLQ EREVKCVEDV LKLIDIGNSC
	RTSGQTSANA HSSRSHAVFQ IILRRKGKLH GKFSLIDLAG NERGADTSSA DRQTRLEGAE
	INKSLLALKE CIRALGRNKP HTPFRASKLT QVLRDSFIGE NSRTCMIATI SPGMASCENT
	LNTLRYANRV KELTVDPTAA GDVRPIMHHP PNQIDDLETQ WGVGSSPQRD DLKLLCEQNE
	EEVSPQLFTF HEAVSQMVEM EEQVVEDHRA VFQESIRWLE DEKALLEMTE EVDYDVDSYA
	TQLEAILEQK IDILTELRDK VKSFRAALQE EEQASKQINP KRPRAL

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 ABIN3093408 | 05/07/2024 | Copyright antibodies-online. All rights reserved. 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 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
 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!

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®):

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	 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. 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:	KIF2A
Alternative Name:	KIF2A (KIF2A Products)
Background:	Kinesin-like protein KIF2A (Kinesin-2) (hK2),FUNCTION: Plus end-directed microtubule-
	dependent motor required for normal brain development. May regulate microtubule dynamics
	during axonal growth. Required for normal progression through mitosis. Required for normal
	congress of chromosomes at the metaphase plate. Required for normal spindle dynamics
	during mitosis. Promotes spindle turnover. Implicated in formation of bipolar mitotic spindles.
	Has microtubule depolymerization activity. {ECO:0000269 PubMed:15843429,
	ECO:0000269 PubMed:17538014, ECO:0000269 PubMed:18411309}.
Molecular Weight:	80.0 kDa
UniProt:	000139
Pathways:	Microtubule Dynamics, Ribonucleoprotein Complex Subunit Organization
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

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Application Details	
	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 °CStorage Comment:Store at -80°C.Expiry Date:Unlimited (if stored properly)