

Datasheet for ABIN7554347

KIF4A Protein (AA 1-1232) (His tag)



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Overview

Quantity:	1 mg
Target:	KIF4A
Protein Characteristics:	AA 1-1232
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF4A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant KIF4A Protein expressed in mammalian cells.
Sequence:	MKEEVKGIPV RVALRCRPLV PKEISEGCQM CLSFVPGEPQ VVVGTDKSFT YDFVFDPSTE QEEVFNTAVA PLIKGVFKGY NATVLAYGQT GSGKTYSMGG AYTAEQENEP TVGVIPRVIQ LLFKEIDKKS DFEFTLKVSY LEIYNEEILD LLCPSREKAQ INIREDPKEG IKIVGLTEKT VLVALDTVSC LEQGNNSTRTV ASTAMNSQSS RSHAIFTISL EQRKKSDKNS 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 RLQEELEGIA DLKKKLNEQS KLLKLKESTE RTVSKLNQEI RMMKNQRVQL MRQMKEDA EK FRQWKQKKDK EVIQLKERDR KRQYELLKLE RNFQKQSNVL RRKTEEAAAA NKRLKDALQK QREVADKRKE

TQSRGMEGTA ARVKNWLGNE IEVMVSTEEA KRHLNDLLED RKILAQDVAQ LKEKKESGEN
PPPKLRRRTF SLTEVRGQVS ESEDSITKQI ESLETEMEFR SAQIADLQK LLDAESED RP
KQRWENIATI LEAKCALKYL IGELVSSKIQ VSKLESSLKQ SKTSCADMQK MLFEERNHFA
EIETELQ AEL VRMEQQHQEK VLYLLSQLQQ SQMAEKQLEE SVSEKEQQLL STLKCQDEEL
EKMREVCEQN QQLLRENEII KQKL TLLQVA SRQKHLPKDT LLSPDSSF EY VPPKPKPSRV
KEKFLEQSM D IEDLYCSEH SVNEHEDGDG DDDEGDDEEW KPTKLVK VSR KNIQGCSC KG
WCGNKQCGCR KQKSDCGVDC CCDPTKCRNR QQGKDSL GTV ERTQDSEGSF KLEDPTEVTP
GLSFFNPVCA TPNSKILKEM CDVEQVLSKK TPPAPSPFDL PELKHVATEY QENKAPGKKK
KRALASNTSF FSGCSPIEEE AH **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	KIF4A
Alternative Name:	KIF4A (KIF4A Products)

Target Details

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:	O95239

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months