Datasheet for ABIN3093424

KIF20A Protein (AA 2-890) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	KIF20A
Protein Characteristics:	AA 2-890
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF20A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	SQGILSPPAG LLSDDDVVVS PMFESTAADL GSVVRKNLLS DCSVVSTSLE DKQQVPSEDS MEKVKVYLRV RPLLPSELER QEDQGCVRIE NVETLVLQAP KDSFALKSNE RGIGQATHRF TFSQIFGPEV GQASFFNLTV KEMVKDVLKG QNWLIYTYGV TNSGKTHTIQ GTIKDGGILP RSLALIFNSL QGQLHPTPDL KPLLSNEVIW LDSKQIRQEE MKKLSLLNGG LQEEELSTSL KRSVYIESRI GTSTSFDSGI AGLSSISQCT SSSQLDETSH RWAQPDTAPL PVPANIRFSI WISFFEIYNE LLYDLLEPPS QQRKRQTLRL CEDQNGNPYV KDLNWIHVQD AEEAWKLLKV GRKNQSFAST HLNQNSSRSH SIFSIRILHL QGEGDIVPKI SELSLCDLAG SERCKDQKSG ERLKEAGNIN TSLHTLGRCI AALRQNQQNR SKQNLVPFRD SKLTRVFQGF FTGRGRSCMI VNVNPCASTY DETLHVAKFS AIASQLVHAP PMQLGFPSLH SFIKEHSLQV SPSLEKGAKA DTGLDDDIEN EADISMYGKE ELLQVVEAMK TLLLKERQEK LQLEMHLRDE ICNEMVEQMQ QREQWCSEHL DTQKELLEEM YEEKLNILKE SLTSFYQEEI QERDEKIEEL EALLQEARQQ SVAHQQSGSE LALRRSQRLA ASASTQQLQE VKAKLQQCKA ELNSTTEELH KYQKMLEPPP

	SAKPFTIDVD KKLEEGQKNI RLLRTELQKL GESLQSAERA CCHSTGAGKL RQALTTCDDI LIKQDQTLAE LQNNMVLVKL DLRKKAACIA EQYHTVLKLQ GQVSAKKRLG TNQENQQPNQ QPPGKKPFLR NLLPRTPTCQ SSTDCSPYAR ILRSRRSPLL KSGPFGKKY **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human KIF20A Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	KIF20A
Alternative Name:	KIF20A (KIF20A Products)
Background:	Mitotic kinesin required for chromosome passenger complex (CPC)-mediated cytokinesis. Following phosphorylation by PLK1, involved in recruitment of PLK1 to the central spindle. Interacts with guanosine triphosphate (GTP)-bound forms of RAB6A and RAB6B. May act as a motor required for the retrograde RAB6 regulated transport of Golgi membranes and associated vesicles along microtubules. Has a microtubule plus end-directed motility. {ECO:0000269|PubMed:12939256}.
Molecular Weight:	101.1 kDa Including tag.
UniProt:	O95235

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 gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	Unlimited (if stored properly)

