

Datasheet for ABIN3135435 KTN1 Protein (AA 30-1327) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	KTN1
Protein Characteristics:	AA 30-1327
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KTN1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>KETLYDEVLA KQKREQKLIS TKTDKKKAEK KKNKKKEIQN GTLRESSEH VPRDFKLSDA</p> <p>SPAEDQFVP APLNVAETSS SVRERQKKEK KQKPSLEEQV IKESDASKIP GKKVEPVLVLT</p> <p>KQPAPPPPLE AAALKKKAGQ KSKNGSEEQ DKKVEMLMAP SKEQDVLLSH QDTKQEGGLG</p> <p>KKKGLSKKQK SENVAVLVDE PLIHATTYMP LDNANSNLMM DKREIDMIK PDHVEGIQKS</p> <p>GTKKLIETD KENAEVKFKD FLLSLKTMMF SEDEALCVVD LLKEKSGVIK EALKKSNKGE</p> <p>LSGLLHQLQE KERLLSAMKE DAAASKERCK RLTQEMMTEK ERSSVVIARM KDRIGTLEKE</p> <p>HNIFQNKMHA SYQETQQMQM KFQQVQEQME AEIAHLKQEN GILRDAVSNT TNQLESKQSA</p> <p>ELNKLQRDCG RLVSELNEKT GKLLQEGVQK KNAEQAAATQL KVQLQEAERR WEEVQSYIRK</p> <p>RTAEHEAAQ DLQSKFVAKE NEVQSLHSLK TDTLVSKQQL EQRLMQLMES EQKRASKEES</p> <p>LQIQVQDILE QNEALKAQIQ QFHSQIAAQT SASVLAEEELH KVIAEKDKQL KQTEDSLANE</p> <p>QDHLASKEEE LKDVQNMNFL LKAEVQKWQA LANEQAATAH EVEKMQKSIH VKEDEIRLLE</p> <p>EQLQHEVASK MEELKILSEQ NKALQSEVRK LQTAVSQQPN KDVVEQMEKC IQEKDEKLRT</p>
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VEELLETGLI QVATREEELS AIRTENSTLT REVQELKAKQ SDQVSFVSLI EDLKRVIHEK
DGQIKSVEEL LEVELLKVAN KEKTVQALKQ EIEVLKEEIG NAQLEKAHQL SVTSQVQELQ
NLLRGKEEQV NSMKAALDR DRGLTGRGTC AQVCSTPQFE ELESVLKEKD NEIKRIEVLK
KDTESDVSKM SELLKEVQEE NKFLKCQLSH QKHQQASFPS QEELQTVISE KEKEITDLCN
ELESKNAVE HQRKKNNDLR EKNWEAMEAL ASTEKMLQDR VNKTSKERRQ HVEAIELESK
DLLKRLFPTV SVPSNLNYSE WLRGFEKKAK ACVAGTSDAE AVKVLHRLK EASEMHTLLQ
LECEKYKSVL AETEGILQKL QRSVEQEESS WKIKADESQR MIKQMQSSFT ASERELERLR
QENKDMENLR REREHLEMEL EKAEMERSTY VMEVRELKDL LTELQKKLDD SYSEAVRQNE
ELNLLKTQLN ETHSKLQNEQ TERKKVADDL HKAQQSLNSI HSKISLKAAG DTVVIENSDI
SPEMESPEKE TMSVSLNQTV TQLQQLLQEV NQQLTKET

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.
- Mouse Ktn1 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 receipt 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

Product Details

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

Target Details

Target:	KTN1
Alternative Name:	Ktn1 (KTN1 Products)
Background:	Receptor for kinesin thus involved in kinesin-driven vesicle motility. Accumulates in integrin-based adhesion complexes (IAC) upon integrin aggregation by fibronectin (By similarity). {ECO:0000250 UniProtKB:Q86UP2}.
Molecular Weight:	150.0 kDa Including tag.
UniProt:	Q61595

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:	Protein has not been tested for activity yet. 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
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Handling

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.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process