Datasheet for ABIN3135871

KIAA1009 (KIAA1009) (AA 1-1403) protein (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	KIAA1009
Protein Characteristics:	AA 1-1403
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAHYFKVDLD EEFERFMKEL SDDSFENSNK TPRQPNEDNK EMKKKDPVPW WIAEDDFEDD GLLGTNVSYL KTKKTYQPVM DTEEESAEKV QFLKSSGTSI LSVDSLEANE LVVSEPHHST LGLGLDTLEE QEEKEQFFAR LEKGLTSSID YSKLNQELDS DDSAQLKALH RYPRNTEPAE DGCENESEQE ELPETYSDDF EDAEDADDPL ITKDEETHPK ENSESGKDSF PKQEEEKTGM LANVVLLDSF DSVEDVGLSS QEKATPKAKA PPEITDDGPA ETGVPYGQSS GDTEALHQAY CHVAHSLGDT GEPRIEASTV QTVRSSIKDG LQENEESSKN VSTTESDLPT VEELMQPIRI DSYGIRAFDL QPISLKKATD SKEAESVGSL PLKTNTNTVS QDTRHAIQFP HKHDESVVLH RTADEGMGSS CPATEEHLDK MYLEILKKKT SVNPSLLPQD DKMNQTSRSQ LGAGEEVPVI GKQVPCKKAR STPSLPKRKP QSGLYASARS SGYGKPSSPL QLFSALEKKT SKDNTKTKSV RSIPTSNQFR KREILSGTKL IKPAASNKPS PHREGSPATP KRPEDPSDDS FVQLQTEPLG SYGGNREKEL LMLKRAQDAE EKWTGAQALM EQMKMTFCEK EKELENTVES LKRQQERELF RLNQENYILQ AKLSSFEETS RKQRWLQFGE TSDPLTGEKL KQIQKEIQEQ ETLLQGYQQE

NERLYNQVKD LQEQNKKNEE RMFKENQNLF SELASLKEQM HKNHFLSQAV ENTEPTKNQS FTDLLAELRA AQKEKNHLME DIKRLKQDKQ ALEVDLEKVK RERDQAKDQI AYATGEKLYE IKILEETHKQ EVSRLQKRLQ WYAENQELLD RDAARLREAN EETEKLRLEI EKLKTESGSP ATQQRLRSKE RALDAKRIQD LERQVKEMEG ILKRRYPNSL PALILAASAA GDSVDRNTVE FMERRIKKLE ADLEGKDEEA KKSLRTMEQQ FQKMKIQYEQ RLEEQEQLLA HRQKEAPQSQ RNSSSRLKAL ETELGDIKEA HQITVRKLEA EIDVLKHQNA DLEHKKNDKG DQGLQSIEFQ VEQAQARAKL ARLNEELAAK GREIQDLTKT VERLQKERRM MLSRQIPRSR EETAAKRLKK DPNRGHGNAF PETLDGKLYH PHTFTDSHIS EVLEENYRLR SELEGLILER SKLKMESEAA VCQLENSMKR VKDDAAAHIA SLKASHEREI EKLLCQNAIE NSSSKVAELN RKIATQEVLL KHFQGQVNEL QGKQESLAVS QVREEILQKQ ITKLLEELKE AKENHTPEMK HFMGLERKIK QMEMRHRQRE QELQQIIQQT RQVVETEQNK EVEKWKRLAQ LKNRELDKFR TELDSILDVL RELHRQGVVV PMALAGEENT AEF

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 Cep162 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.

Product Details

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

Target Details

Target:	KIAA1009
Alternative Name:	Cep162 (KIAA1009 Products)
Background:	Required to promote assembly of the transition zone in primary cilia. Acts by specifically recognizing and binding the axonemal microtubule. Localizes to the distal ends of centrioles before ciliogenesis and directly binds to axonemal microtubule, thereby promoting and restricting transition zone formation specifically at the cilia base. Required to mediate CEP290 association with microtubules (By similarity). {ECO:0000250}.
Molecular Weight:	161.8 kDa Including tag.
UniProt:	Q6ZQ06

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:	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
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