Datasheet for ABIN3096314

KIAA1033 Protein (KIAA1033) (AA 2-1173) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	KIAA1033
Protein Characteristics:	AA 2-1173
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIAA1033 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	AVETLSPDWE FDRVDDGSQK IHAEVQLKNY GKFLEEYTSQ LRRIEDALDD SIGDVWDFNL DPIALKLLPY EQSSLLELIK TENKVLNKVI TVYAALCCEI KKLKYEAETK FYNGLLFYGE GATDASMVEG DCQIQMGRFI SFLQELSCFV TRCYEVVMNV VHQLAALYIS NKIAPKIIET TGVHFQTMYE HLGELLTVLL TLDEIIDNHI TLKDHWTMYK RLLKSVHHNP SKFGIQEEKL KPFEKFLLKL EGQLLDGMIF QACIEQQFDS LNGGVSVSKN STFAEEFAHS IRSIFANVEA KLGEPSEIDQ RDKYVGICGL FVLHFQIFRT IDKKFYKSLL DICKKVPAIT LTANIIWFPD NFLIQKIPAA AKLLDRKSLQ AIKIHRDTFL QQKAQSLTKD VQSYYVFVSS WMMKMESILS KEQRMDKFAE DLTNRCNVFI QGFLYAYSIS TIIKTTMNLY MSMQKPMTKT SVKALCRLVE LLKAIEHMFY RRSMVVADSV SHITQHLQHQ ALHSISVAKK RVISDKKYSE QRLDVLSALV LAENTLNGPS TKQRRLIVSL ALSVGTQMKT FKDEELFPLQ VVMKKLDLIS ELRERVQTQC DCCFLYWHRA VFPIYLDDVY ENAVDAARLH YMFSALRDCV PAMMHARHLE SYEILLDCYD KEIMEILNEH LLDKLCKEIE KDLRLSVHTH LKLDDRNPFK VGMKDLALFF SLNPIRFFNR FIDIRAYVTH

	YLDKTFYNLT TVALHDWATY SEMRNLATQR YGLVMTEAHL PSQTLEQGLD VLEIMRNIHI FVSRYLYNLN NQIFIERTSN NKHLNTINIR HIANSIRTHG TGIMNTTVNF TYQFLKKKFY IFSQFMYDEH IKSRLIKDIR FFREIKDQND HKYPFDRAEK FNRGIRKLGV TPEGQSYLDQ FRQLISQIGN AMGYVRMIRS GGLHCSSNAI RFVPDLEDIV NFEELVKEEG LAEETLKAAR HLDSVLSDHT RNSAEGTEYF KMLVDVFAPE FRRPKNIHLR NFYIIVPPLT LNFVEHSISC KEKLNKKNKI GAAFTDDGFA MGVAYILKLL DQYREFDSLH WFQSVREKYL KEIRAVAKQQ NVQSASQDEK LLQTMNLTQK RLDVYLQEFE LLYFSLSSAR IFFRADKTAA EENQEKKEKE EETKTSNGDL SDSTVSADPV VK **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 KIAA1033 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.

Product Details

	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:	KIAA1033
Alternative Name:	KIAA1033 (KIAA1033 Products)
Background:	Acts at least in part as component of the WASH core complex whose assembly at the surface of endosomes sems to inhibit WASH nucleation-promoting factor (NPF) activity in recruiting and activating the Arp2/3 complex to induce actin polymerization, and which is involved in the regulation of the fission of tubules that serve as transport intermediates during endosome sorting (PubMed:19922875, PubMed:20498093). {ECO:0000250|UniProtKB:Q3UMB9, ECO:0000303|PubMed:21498477, ECO:0000305|PubMed:19922875, ECO:0000305|PubMed:20498093}.
Molecular Weight:	137.2 kDa Including tag.
UniProt:	Q2M389
Pathways:	SARS-CoV-2 Protein Interactome

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.
Expiry Date:	Unlimited (if stored properly)

Images

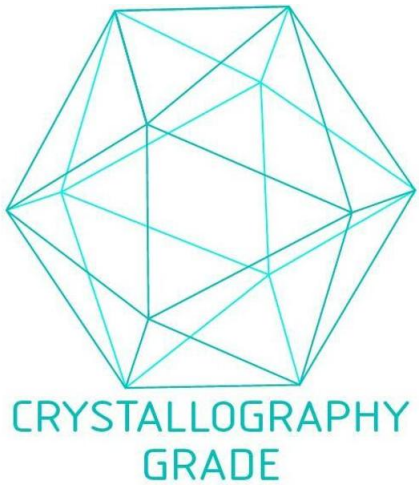

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process