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Datasheet for ABIN3115245

KIAA1432 (KIAA1432) (AA 1-1423) protein (Strep Tag)

Overview

Quantity:	1 mg
Target:	KIAA1432
Protein Characteristics:	AA 1-1423
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MYFLSGWPKR LLCPLGSPAE APFHVQSDPQ RAFFAVLAAA RLSIWYSRPS VLIVTYKEPA KSSTQFGSYK QAEWRPDSTM IAVSTANGYI LFFHITSTRG DKYLYEPVYP KGSPQMKGTP HFKEEQCAPA LNLEMRKILD LQAPIMSLQS VLEDLLVATS DGLLHLIHWE GMTNGRKAIN LCTVPFSVDL QSSRVGSFLG FTDVHIRDME YCATLDGFAV VFNDGKVGFI TPVSSRFTAE QLHGVWPQDV VDGTCVAVNN KYRLMAFGCV SGSVQVYTID NSTGAMLLSH KLELTAKQYP DIWNKTGAVK LMRWSPDNSV VIVTWEYGGI SLWSVFGAQL ICTLGGDFAY RSDGTTKDPL KINSMSWGAE GYHLWVISGF GSQNTIEESD LRSVVKQPSI LLFQFIKSVL TVNPCMSNQE QVLLQGEDRL YLNCGEASQT QNPRSSSTHS EHKPSREKSP FADGGLESQG LSTLLGHRHW HVVQISSTYL ESNWPIRFSI IDKLGQNIIV VGKFGFAHYS LLTKKWKLFV NITQEQNMIV TGGLAWWNDF MVLACYNIND RQEELRVYLR TSNLDNAFAH VTKAQAETLL LSVFQDMVIV FRADCSICLY SIERKSDGPN TTAGIQVLQE VSMSRYIPHP FLVSVTLTS VSTENGITLK MPQQARGAES IMLNLAGQLI MMQRDRSGPQ IREKDSNPNN QRKLLPFCPP VVLAQSVENV
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WTTTCRANKQK RHLLEALWLS CGGAGMKVWL PLFPRDHRKP HSFLSQRIML PFHINIYPLA
VLFEDALVLG AVNDTLLYDS LYTRNNAREQ LEVLFPCVV ERTSQIYLHH ILRQLLVRNL
GEQALLLAQS CATLPYFPV LELMLHEVLE EEATSREPIP DPLLPTVAKF ITEFPLFLQT
VVHCARKTEY ALWNYLFAAV GNPKDLFEEC LMAQDLDTAA SYLILQNME VPAVSRQHAT
LLFNTALEQG KWDLCRHMIR FLKAIGSGES ETPPSTPTAQ EPSSSGGFEF FRNRSISLSQ
SAENVPASKF SLQKTLMPGS GPSGKRWSKD SDCAENMYID MMLWRHARRL LEDVRLKDLG
CFAAQLGFEL ISWLCKERTR AARVDNFVIA LKRLHKDFLW PLPIIPASSI SSPFKNGKYR
TVGEQLLSQ SADPFLNLEM DAGISNIQRS QSWLSNIGPT HHEIDTASSH GPQMMDAFLS
PLSNKGDECS IGSATDLTES SSMVDGDWTM VDNFSTLSL TQSELEHISM ELASKGPHKS
QVQLRYLLHI FMEAGCLDWC IVIGLILRES SIINQILVIT QSSEVDGEML QNIKTGLHAV
DRWASTDCPG YKPFLNIIKP QLQKLSEITE EQVQPDFAQP ITMGKTPEQT SPRAEESRGS
SSHGSIPQGE VGSSNMVSRK EEDTAQAEFE EPFQDGTDC SVS

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional

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components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	KIAA1432
Alternative Name:	RIC1 (KIAA1432 Products)
Background:	Guanine nucleotide exchange factor subunit RIC1 (Connexin-43-interacting protein of 150 kDa) (Protein RIC1 homolog) (RAB6A-GEF complex partner protein 1),FUNCTION: The RIC1-RGP1 complex acts as a guanine nucleotide exchange factor (GEF), which activates RAB6A by exchanging bound GDP for free GTP, and may thereby be required for efficient fusion of endosome-derived vesicles with the Golgi compartment (PubMed:23091056). The RIC1-RGP1 complex participates in the recycling of mannose-6-phosphate receptors (PubMed:23091056). Required for phosphorylation and localization of GJA1 (PubMed:16112082). Is a regulator of procollagen transport and secretion, and is required for correct cartilage morphogenesis and development of the craniofacial skeleton (PubMed:31932796). {ECO:0000269 PubMed:16112082, ECO:0000269 PubMed:23091056,

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	ECO:0000269 PubMed:31932796}.
Molecular Weight:	159.3 kDa
UniProt:	Q4ADV7

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)