

Datasheet for ABIN3135651

KIAA1432 (KIAA1432) (AA 1-1422) protein (Strep Tag)



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Overview

Quantity:	250 µg
Target:	KIAA1432
Protein Characteristics:	AA 1-1422
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AlIcE®
Sequence:	<p>MYFLSGWPKR LLCAPRSPAE APLHVQSDPR RAFFAVLAPA RLSIWYSRPS VLIVTYKEPA</p> <p>KSSTQFGSYK QAEWRPDSTM IAVSTANGYI LFFHITSSRG DKYLYEPVYP KGSPQMKGIP</p> <p>HFKEEHCAPA LNLEMKKILD LQAPIMSLQS VLEDLLVATS DGLLHLIHWE GMTNGRKAIN</p> <p>LSTVPFSVDL QSSRVGSFLG FADVHIKDME YCATLDGFAV VFNDGKVGFI TPVSSRFTAE</p> <p>QLHGVWPQDV IDGTCVAVNN KYRLMAFGCA SGCVQVYTID NTTGAMLLSH KLELTAKQYP</p> <p>DIWNKTGAVK LIRWSPDNSA VIVTWEYGGI SLWSVFQAQL ICTLGPDFAY RSDGTTKDPL</p> <p>KINMSWGAE GYHLWVISGL GSQHTQIETD LRSTVKEPSI LLFQFIKSVL TVNPCMSNQE</p> <p>QVLLQGEDRL YLNCGEASQA QNPKYSSARA ERMPRHEKSP FADGGLEAPG LSTLLGHRHW</p> <p>HVVQISSTYL ESNWPIRFSA IDKLGQNIIV AGKFGFAHYS LLTKKWKLFQ NITQEQNMIV</p> <p>TGGLAWWDDF MVLACYNLSD CQEELRIYLR TSNLDNAFAH VTKAPMETLL LSVFRDMVVV</p> <p>FRADCSICLY SIERKSDGSN TTASVQVLQE VSMSRYIPHP FLVVSVTLTS VSTENGISLK</p>

MPQQARDAES IMLNLAGQLI MMQRDRSGPQ IREKDSHPNQ RKLLPFCPPV VLAQSVENVW
TTCRANKQKR HLEALWLSC GGAGMKVWLP LFPRDHRKPH SFLSQRIMLP FHINIYPLAV
LFEDALVLGA VNDTLLYDSL YTRSSAREQL EVLFPFCVVE RTSQIYLHHI LRQLLVRNLG
EQALLLAQSC AALPYFPHVL ELMLHEVLEE EATSREPIPD PLLPTVAKFI TEFPLFLQTV
VHCARKTEYA LWNYLFAAVG NPKDLFEECL MAQDLDTAAS YLILQNMEV PAVSRQHATL
LFNTALEQGK WDLCRHMIRF LKAIGSGESE TPPSTPTSQE PSSSGGFEFF RNRSISLSQS
AENVPPGKFG LQKTLSMTPG PSGKRWSKDS ECAENMYIDM MLWRHARRLL EEVRLKDLGC
FAAQLGFELI SWLCKERTRA ARVDNFVVAL KRLHKDFLWP LPIIPASSIS SPFKNGKCRA
VGEQMLKSQS ADPFITPEMD AGISNIQRSQ SWLSNIGPTH RDTDRASSPG PQMQDAFLSP
LSNKGDECSI GSATDLTESS SVVDGDWTMV DENFSTLSLT QSELEHISME LASKGPHKSQ
VQLRYLLHIF MEAGCLDWCV VIGLILRESS VVSQLLGIAQ SSEMDGEMLQ NIKSGLQAVD
RWASTDCPGY KPFLNIIKPQ LQKLSEITEE LVQPDTFQPV TVGKTPEQTS PRAEENRGSC
SHGSISQSEP GSNNVVSKE EDTTQADEEE PLQDGAYDCS VS

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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

Product Details

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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	KIAA1432
Alternative Name:	Ric1 (KIAA1432 Products)
Background:	Guanine nucleotide exchange factor subunit RIC1 (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. The RIC1-RGP1 complex participates in the recycling of mannose-6-phosphate receptors. Required for phosphorylation and localization of GJA1. Is a regulator of procollagen transport and secretion, and is required for correct cartilage morphogenesis and development of the craniofacial skeleton. {ECO:0000250 UniProtKB:Q4ADV7}.
Molecular Weight:	158.8 kDa
UniProt:	Q69ZJ7

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.
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Application Details

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>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months