Datasheet for ABIN3116809

KIAA1524 Protein (KIAA1524) (AA 1-905) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	KIAA1524
Protein Characteristics:	AA 1-905
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIAA1524 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDSTACLKSL LLTVSQYKAV KSEANATQLL RHLEVISGQK LTRLFTSNQI LTSECLSCLV ELLEDPNISA SLILSIIGLL SQLAVDIETR DCLQNTYNLN SVLAGVVCRS SHTDSVFLQC IQLLQKLTYN VKIFYSGANI DELITFLIDH IQSSEDELKM PCLGLLANLC RHNLSVQTHI KTLSNVKSFY RTLITLLAHS SLTVVVFALS ILSSLTLNEE VGEKLFHARN IHQTFQLIFN ILINGDGTLT RKYSVDLLMD LLKNPKIADY LTRYEHFSSC LHQVLGLLNG KDPDSSSKVL ELLLAFCSVT QLRHMLTQMM FEQSPPGSAT LGSHTKCLEP TVALLRWLSQ PLDGSENCSV LALELFKEIF EDVIDAANCS SADRFVTLLL PTILDQLQFT EQNLDEALTR KKCERIAKAI EVLLTLCGDD TLKMHIAKIL TTVKCTTLIE QQFTYGKIDL GFGTKVADSE LCKLAADVIL KTLDLINKLK PLVPGMEVSF YKILQDPRLI TPLAFALTSD NREQVQSGLR ILLEAAPLPD FPALVLGESI AANNAYRQQE TEHIPRKMPW QSSNHSFPTS IKCLTPHLKD GVPGLNIEEL IEKLQSGMVV KDQICDVRIS DIMDVYEMKL STLASKESRL QDLLETKALA LAQADRLIAQ

HRCQRTQAET EARTLASMLR EVERKNEELS VLLKAQQVES ERAQSDIEHL FQHNRKLESV AEEHEILTKS YMELLQRNES TEKKNKDLQI TCDSLNKQIE TVKKLNESLK EQNEKSIAQL IEKEEQRKEV QNQLVDREHK LANLHQKTKV QEEKIKTLQK EREDKEETID ILRKELSRTE QIRKELSIKA SSLEVQKAQL EGRLEEKESL VKLQQEELNK HSHMIAMIHS LSGGKINPET VNLSI

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 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.

Product Details

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:	KIAA1524
Alternative Name:	CIP2A (KIAA1524 Products)
Background:	Protein CIP2A (Cancerous inhibitor of PP2A) (p90 autoantigen),FUNCTION: Acts as an inhibitor of protein phosphatase PP2A (PubMed:17632056). Promotes anchorage-independent cell growth and tumor formation by preventing dephosphorylation of MYC, thereby stabilizing MYC in human malignancies (PubMed:17632056). Together with TOPBP1, plays an essential role in the response to genome instability generated by the presence of acentric chromosome fragments derived from shattered chromosomes within micronuclei (PubMed:35121901, PubMed:35842428, PubMed:37165191, PubMed:37316668). Micronuclei, which are frequently found in cancer cells, consist of chromatin surrounded by their own nuclear membrane: following breakdown of the micronuclear envelope, a process associated with chromothripsis, the CIP2A-TOPBP1 complex tethers chromosome fragments during mitosis to ensure clustered segregation of the fragments to a single daughter cell nucleus, facilitating re-ligation with limited chromosome scattering and loss (PubMed:37165191, PubMed:37316668). {ECO:0000269|PubMed:17632056, ECO:0000269|PubMed:35121901, ECO:0000269|PubMed:35842428, ECO:0000269|PubMed:37165191, ECO:0000269|PubMed:37316668}.
Molecular Weight:	102.2 kDa
UniProt:	Q8TCG1

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:	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

Application Details

	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 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!
Restrictions:	For Research Use only

Handling

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