Datasheet for ABIN3135935

C2CD5/KIAA0528 Protein (AA 1-1016) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	C2CD5/KIAA0528 (C2CD5)
Protein Characteristics:	AA 1-1016
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This C2CD5/KIAA0528 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPGKLKVKIV AGRHLPVMDR ASDLTDAFVE VKFGNTTFKT DVYLKSLNPQ WNSEWFKFEV DDEDLQDEPL QITVLDHDTY SANDAIGKVY IDIDPLLYSE AATVISGWFP IYDTIHGIRG EINVVVKVDL FNDSNRFRQS SCGVKFFCTT SIPKCYRAVV IHGFVEELVV NEDPEYQWID RIRTPRASNE ARQRLISLMS GELQRKIGLK VLEMRGNAVV GYLQCFDLEG ESGLVVRAIG TACTLDKLSS PAAFLPACSS PSRELKEIPF NEDPNPNTHS SGPSTPLKNQ TYSFSPSKSY SRQSSSSDTD LSLTPKTGMG SGSAGKEGGP FKALLRQQTQ SALEQREFPF LTLTAFPPGL LVHVGGVVSA RSVKLLDRIH NPDEPETRDA WWAEIRQEIK SHAKALGCHA VVGYSESTSI CEEVCILSAS GTAAVLNPRF LQEGTVEGCL EQRIEENLPV GCGFCHIPYD ELNMPFPAHL TYCYNCRKQK VPDVLFTTID LPTDAVVVGK GCLIQARLCR LKKKAQAEAN ATAISNLLPF MEYEVHTQLM NKLKLKGMNA LFGLRIQITV GETMLMGLAS ATGVYLAALP TPGGIQIAGK TPNDGSYEQH ISHMQKRIND TIAKNKELYE ITPPEVSEEM IGSPIPEPRQ RSRLLRSQSE

SSDEVTELDL SHGKKDAFVL EIDDTDAMED VHSLLTDAPP PSGFYSCNTE IMPGINNWTS EIQMFTSVRV VRLSSLNLTN QALNKNFNGL CENLLKSLYF KLRSMTPCCL CHVNFTVSLP EDELIQVTVT AVAITFDKNQ ALQTTKPHVE KSLQRASTDN EELLQFPLEL CSDSLPPHPF PAAKEHLESA NSNSGIPAAQ RAVTVEKASA MGDGNFRNRS APPCASPTVG VVKMTPLSFI PGAKITKYLG IINMFFIRET TSLREEGGVS GFLHAFIAEV FAMVRAHVAA LGGNAVVSYI MKQCVFMENP SKNQAQCLIN VSGDAVVFVR DSDLEVMSSQ QPAANCQPSC TGEVTT

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.

Product Details

- 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:	C2CD5/KIAA0528 (C2CD5)
Alternative Name:	C2cd5 (C2CD5 Products)
Background:	C2 domain-containing protein 5 (138 kDa C2 domain-containing phosphoprotein),FUNCTION: Required for insulin-stimulated glucose transport and glucose transporter SLC2A4/GLUT4 translocation from intracellular glucose storage vesicle (GSV) to the plasma membrane (PM) in adipocytes. Binds phospholipid membranes in a calcium-dependent manner and is necessary for the optimal membrane fusion between SLC2A4/GLUT4 GSV and the PM. {ECO:0000269|PubMed:21907143}.
Molecular Weight:	111.7 kDa
UniProt:	Q7TPS5

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 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

Application Details

	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