Datasheet for ABIN3088880

ANKRD50 Protein (AA 1-1429) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	ANKRD50
Protein Characteristics:	AA 1-1429
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD50 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MTNPWEEKVC KMAQTSLLQG KQFYCREWVF HKLQHCLQEK SNCCNSAVNA PSLVMNSGNN ASGVSGKGAA WGVLLVGGPG SGKTALCTEL LWPSSPASLQ RGLHRQALAF HFCKAQDSDT LCVGGFIRGL VAQICRSGLL QGYEDKLRDP AVQSLLQPGE CERNPAEAFK RCVLLPLLGM KPPQQSLYLL VDSVDEGCNI TEGEQTSTSL SGTVAALLAG HHEFFPPWLL LLCSARKQSK AVTKMFTGFR KISLDDLRKA YIVKDVQQYI LHRLDQEEAL RQHLTKETAE MLNQLHIKSS GCFLYLERVL DGVVENFIML REIRDIPGTL NGLYLWLCQR LFVRKQFAKV QPILNVILAA CRPLTITELY HAVWTKNMSL TLEDFQRKLD ILSKLLVDGL GNTKILFHYS FAEWLLDVKH CTQKYLCNAA EGHRMLAMSY TCQAKNLTPL EAQEFALHLI NSNLQLETAE LALWMIWNGT PVRDSLSTLI PKEQEVLQLL VKAGAHVNSE DDRTSCIVRQ ALEREDSIRT LLDNGASVNQ CDSNGRTLLA NAAYSGSLDV VNLLVSRGAD LEIEDAHGHT PLTLAARQGH TKVVNCLIGC GANINHTDQD GWTALRSAAW GGHTEVVSAL LYAGVKVDCA DADSRTALRA AAWGGHEDIV LNLLQHGAEV NKADNEGRTA LIAAAYMGHR EIVEHLLDHG AEVNHEDVDG RTALSVAALC

VPASKGHASV VSLLIDRGAE VDHCDKDGMT PLLVAAYEGH VDVVDLLLEG GADVDHTDNN GRTPLLAAAS MGHASVVNTL LFWGAAVDSI DSEGRTVLSI ASAQGNVEVV RTLLDRGLDE NHRDDAGWTP LHMAAFEGHR LICEALIEQG ARTNEIDNDG RIPFILASQE GHYDCVQILL ENKSNIDQRG YDGRNALRVA ALEGHRDIVE LLFSHGADVN CKDADGRPTL YILALENQLT MAEYFLENGA NVEASDAEGR TALHVSCWQG HMEMVQVLIA YHADVNAADN EKRSALQSAA WQGHVKVVQL LIEHGAVVDH TCNQGATALC IAAQEGHIDV VQVLLEHGAD PNHADQFGRT AMRVAAKNGH SQIIKLLEKY GASSLNGCSP SPVHTMEQKP LQSLSSKVQS LTIKSNSSGS TGGGDMQPSL RGLPNGPTHA FSSPSESPDS TVDRQKSSLS NNSLKSSKNS SLRTTSSTAT AQTVPIDSFH NLSFTEQIQQ HSLPRSRSRQ SIVSPSSTTQ SLGQSHNSPS SEFEWSQVKP SLKSTKASKG GKSENSAKSG SAGKKAKQSN SSQPKVLEYE MTQFDRRGPI AKSGTAAPPK QMPAESQCKI MIPSAQQEIG RSQQQFLIHQ QSGEQKKRNG IMTNPNYHLQ SNQVFLGRVS VPRTMQDRGH QEVLEGYPSS ETELSLKQAL KLQIEGSDPS FNYKKETPL

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

Product Details

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:	ANKRD50
Alternative Name:	ANKRD50 (ANKRD50 Products)
Background:	Ankyrin repeat domain-containing protein 50,FUNCTION: Involved in the endosome-to-plasma membrane trafficking and recycling of SNX27-retromer-dependent cargo proteins, such as GLUT1 (PubMed:25278552).
Molecular Weight:	155.9 kDa
UniProt:	Q9ULJ7

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

Application Details

	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 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. 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)

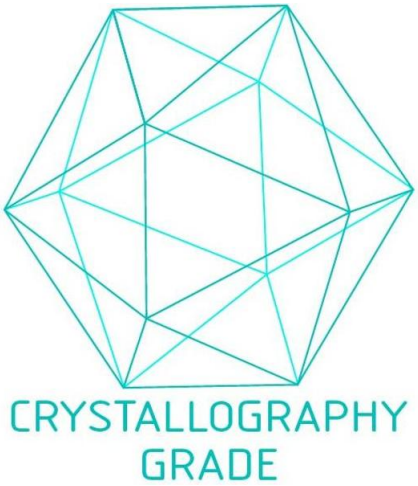

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

