Datasheet for ABIN3135069

ANKRD27 Protein (AA 1-1048) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ANKRD27
Protein Characteristics:	AA 1-1048
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD27 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MALYDEDLLK NPFYLALQKW RPDLCSKVAQ IHGIVLVPCR GSLPGSVQAS CQFESYVLVP TEGHFQTLDG KAVVIEGNRI KLGAGFACLL SVPILFEETF YNEKEESFSI LCIAHPLERR ETSEEPSAPA DPFSLKTIED VREFLGRHSE KFDKNIASFH RTFRECERKS LRHHIDSVNA LYTKCLQQLL RDSHLKVLAK QEAQMNLMKQ AVEMYVHHDI YDLIFKYVGT MEASEDAAFN KITRSLQDLQ QKDIGVKPEF SFNIPRAKRE LGQLNKCTSP QQKLLCLRKV VQLMTQSPSQ RVNLETMCAD DLLSVLLYLL VKTEIPNWMA NLSYIKNFRF SSSAKDELGY CLTSVEAAIE YIRQGSLSTK TPDAEGFGDR LFLKQRMNLL SQMTSTPIDC LFKHIASGNQ KEVERLLSQD DQDKDAMQKM CHPLCSCEDC EKLISGRLND PSVVTPFSRD DRGQTPLHVA ALCGQASLID FLVSKGAVVN ATDYHGSTPL HLACQKGFQS VTLLLLHYKA STEVQDNNGN TPLHLACTYG QEDCVKALVY YDVQACRLDI GNEKGDTALH IAARWGYEGI IETLLQNGAP TAVQNRLKET PLKCALNSKI LSIMEAHHLS SDRRPRPSEV PAQSPTRSVD SISQGSSTSS FSSISVSFRQ

EEVKKDYREV EKLLRAVADG DLEMVRYLLE WTEDDLDDVE DAISTVDLEF CHPLCQCPKC APAQKLARIS ANGLSVNVTN QDGFSPLHMA ALHGRTDLVP LLLKHGAYSG ARNTSQAVPL HLACQQGHFQ VAKCLLDSNA KPNKKDLSGN TPLICACSAG HHEVAALLLQ HGASINACNN KGNTALHEAV MGRHTLVVEL LLFYGASVDI LNKRQYTAAD CAEQDSKIME LLQVVPGCVA SLDSVEEADH EGYVTVEIRR KWNPKMYNLP EEPLRRQFCL INPGGRFQER TSRETMGRDR SVPDLAGRSL QEPEKQRVTG KQSDLSDLSR YQTSEEGNKG LPERPVSRQA APGHRPMVRR HTVNDAAILQ VPEVTVHLTT HEASVPQS

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.

Product Details

- 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:	ANKRD27
Alternative Name:	Ankrd27 (ANKRD27 Products)
Background:	Ankyrin repeat domain-containing protein 27 (VPS9 domain-containing protein) (VPS9-ankyrin-repeat protein),FUNCTION: May be a guanine exchange factor (GEF) for Rab21, Rab32 and Rab38 and regulate endosome dynamics (By similarity). May regulate the participation of VAMP7 in membrane fusion events, in vitro inhibits VAMP7-mediated SNARE complex formation by trapping VAMP7 in a closed, fusogenically inactive conformation (By similarity). Involved in peripheral melanosomal distribution of TYRP1 in melanocytes, the function, which probably is implicating vesicle-trafficking, includes cooperation with Rab32, Rab38 and VAMP7 (PubMed:19403694, PubMed:21187289). Involved in the regulation of neurite growth, the function seems to require its GEF activity, probably towards Rab21, and VAMP7 but not Rab32/38 (PubMed:19745841, PubMed:22171327). Proposed to be involved in Golgi sorting of VAMP7 and transport of VAMP7 vesicles to the cell surface, the function seems to implicate kinesin heavy chain isoform 5 proteins, GOLGA4, RAB21 and MACF1. Required for the colocalization of VAMP7 and Rab21, probably on TGN sites (By similarity). Involved in GLUT1 endosome-to-plasma membrane trafficking, the function is dependent of association with VPS29 (By similarity). Regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (PubMed:26620560). {ECO:0000250|UniProtKB:Q96NW4, ECO:0000269|PubMed:19403694, ECO:0000269|PubMed:21187289, ECO:0000269|PubMed:26620560}.
Molecular Weight:	116.8 kDa
UniProt:	Q3UMR0

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 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