

Datasheet for ABIN3089029
ANKRD27 Protein (AA 1-1050) (Strep Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	ANKRD27
Protein Characteristics:	AA 1-1050
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD27 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MALYDEDLLK NPFYLALQKC RPDLC SKVAQ IHGIVLVPCK GSLSSSIQST CQFESYILIP VEEHFQTLNG KDVFIQGNRI KLGAGFACLL SVPILFEETF YNEKEESFSI LCIAHPLEKR ESSEEPLAPS DPFS LKTIED VREFLGRHSE RFDRNIASFH RTFRE CERKS LRHHIDSANA LYTKCLQQLL RDSHLKMLAK QEAQMNL MKQ AVEIYVHHEI YNLIFKYVGT MEASEDAAFN KITRSLQDLQ QKDIGVKPEF SFNIPRAKRE LAQLNKCTSP QQKL VCLRKV VQLITQSPSQ RVNLETMCAD DLLSVLLYLL VKTEIPNWMA NLSYIKNFRF SSLAKDELGY CLTSFEAAIE YIRQGSLSAK PPESEGF GDR LFLKQRMSLL SQMTSSPTDC LFKHIASGNQ KEVERLLSQE DHDKDTVQKM CHPLCFCDDC EKLVS GRLND PSVWTPFSRD DRGHTPLHVA AVCGQASLID LLVSKGAMVN ATDYHGATPL HLACQKGYQS VTLLLLHYKA SAEVDNNGN TPLHLACTYG HEDCVKALVY YDVESCRLDI GNEKGDTP LH IAARWGYQGV IETLLQNGAS TEIQNRLKET PLKCALNSKI LSVMEAYHLS FERRQKSSEA PVQSPQRSVD SISQESSTSS FSSMSASSRQ EETKKDYREV EKLLRAVADG DLEMVRYLLE WTEEDLEDAE DTVSAADPEF CHPLCQCPKC
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APAQKRLAKV PASGLGVNVT SQDGSSPLHV AALHGRADLI PLLLKHGANA GARNADQAVP
LHLACQQGHF QVVKCLLDSN AKPNKKDLSG NTPLIYACSG GHHELVALLL QHGASINASN
NKGNTALHEA VIEKHVVFVE LLLLHGASVQ VLNKRQRTAV DCAEQNSKIM ELLQVVPSCV
ASLDDVAETD RKEYVTVKIR KKWNSKLYDL PDEPFTQFY FVHSAGQFKG KTSREIMARD
RSVPNLTEGS LHEPGRQSVT LRQNNLPAQS GSHAAEKGNS DWPERPGLTQ TGPGHRRMLR
RHTVEDAVVS QGPEAAGPLS TPQEVSAARS

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 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 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:	ANKRD27
Alternative Name:	ANKRD27 (ANKRD27 Products)
Background:	Ankyrin repeat domain-containing protein 27 (VPS9 domain-containing protein),FUNCTION: May be a guanine exchange factor (GEF) for Rab21, Rab32 and Rab38 and regulate endosome dynamics (PubMed:16525121, PubMed:18477474). 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 (PubMed:23104059). Involved in peripheral melanosomal distribution of TYRP1 in melanocytes, the function, which probably is implicating vesicle-trafficking, includes cooperation with Rab32, Rab38 and VAMP7 (By similarity). Involved in the regulation of neurite growth, the function seems to require its GEF activity, probably towards Rab21, and VAMP7 but not Rab32/38 (By similarity). 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 (PubMed:22705394). Required for the colocalization of VAMP7 and Rab21, probably on TGN sites (PubMed:19745841). Involved in GLUT1 endosome-to-plasma membrane trafficking, the function is dependent of association with VPS29 (PubMed:24856514). Regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity). {ECO:0000250 UniProtKB:Q3UMR0,

Target Details

ECO:0000269|PubMed:23104059, ECO:0000269|PubMed:24856514,
ECO:0000305|PubMed:16525121, ECO:0000305|PubMed:18477474,
ECO:0000305|PubMed:22705394}.

Molecular Weight: 117.0 kDa

UniProt: [Q96NW4](#)

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.

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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