Datasheet for ABIN3089029

ANKRD27 Protein (AA 1-1050) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	ANKRD27
Protein Characteristics:	AA 1-1050
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD27 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MALYDEDLLK NPFYLALQKC RPDLCSKVAQ IHGIVLVPCK GSLSSSIQST CQFESYILIP VEEHFQTLNG KDVFIQGNRI KLGAGFACLL SVPILFEETF YNEKEESFSI LCIAHPLEKR ESSEEPLAPS DPFSLKTIED VREFLGRHSE RFDRNIASFH RTFRECERKS LRHHIDSANA LYTKCLQQLL RDSHLKMLAK QEAQMNLMKQ AVEIYVHHEI YNLIFKYVGT MEASEDAAFN KITRSLQDLQ QKDIGVKPEF SFNIPRAKRE LAQLNKCTSP QQKLVCLRKV VQLITQSPSQ RVNLETMCAD DLLSVLLYLL VKTEIPNWMA NLSYIKNFRF SSLAKDELGY CLTSFEAAIE YIRQGSLSAK PPESEGFGDR LFLKQRMSLL SQMTSSPTDC LFKHIASGNQ KEVERLLSQE DHDKDTVQKM CHPLCFCDDC EKLVSGRLND PSVVTPFSRD DRGHTPLHVA AVCGQASLID LLVSKGAMVN ATDYHGATPL HLACQKGYQS VTLLLLHYKA SAEVQDNNGN TPLHLACTYG HEDCVKALVY YDVESCRLDI GNEKGDTPLH IAARWGYQGV IETLLQNGAS TEIQNRLKET PLKCALNSKI LSVMEAYHLS FERRQKSSEA PVQSPQRSVD SISQESSTSS FSSMSASSRQ EETKKDYREV EKLLRAVADG DLEMVRYLLE WTEEDLEDAE DTVSAADPEF CHPLCQCPKC

	APAQKRLAKV PASGLGVNVT SQDGSSPLHV AALHGRADLI PLLLKHGANA GARNADQAVP LHLACQQGHF QVVKCLLDSN AKPNKKDLSG NTPLIYACSG GHHELVALLL QHGASINASN NKGNTALHEA VIEKHVFVVE LLLLHGASVQ VLNKRQRTAV DCAEQNSKIM ELLQVVPSCV ASLDDVAETD RKEYVTVKIR KKWNSKLYDL PDEPFTRQFY FVHSAGQFKG KTSREIMARD RSVPNLTEGS LHEPGRQSVT LRQNNLPAQS GSHAAEKGNS DWPERPGLTQ TGPGHRRMLR RHTVEDAVVS QGPEAAGPLS TPQEVSASRS **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human ANKRD27 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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.

Product Details

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	ANKRD27
Alternative Name:	ANKRD27 (ANKRD27 Products)
Background:	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). {ECO:0000250|UniProtKB:Q3UMR0, ECO:0000269|PubMed:23104059, ECO:0000269|PubMed:24856514, ECO:0000305|PubMed:16525121, ECO:0000305|PubMed:18477474, ECO:0000305|PubMed:22705394}.
Molecular Weight:	117.9 kDa Including tag.
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:	In cases in which it is highly likely that the recombinant protein with the default tag will be

Application Details

	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

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