

Datasheet for ABIN7552188

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



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Overview

Quantity:	1 mg
Target:	ANKRD27
Protein Characteristics:	AA 1-1050
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ANKRD27 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ANKRD27 Protein expressed in mammalian cells.
Sequence:	<p>MALYDEDLLK NPFYLALQKC RPDLCISKVAQ IHGIVLVPCK GSLSSSIQST CQFESYILIP</p> <p>VEEHFQTLNG KDVFIQGNRI KLGAGFACLL SVPILFEETF YNEKEESFSI LCIAHPLEKR</p> <p>ESSEEPLAPS DPFSLKTIED VREFLGRHSE RFDRNIASFH RTFRECEKRS LRHHIDSANA</p> <p>LYTKCLQQLL RDSHLKMLAK QEAQMNLKMQ AVEIYVHHEI YNLIFKYVGT MEASEDAAFN</p> <p>KITRSLQDLQ QKDIGVKPEF SFNIPRAKRE LAQLNKCTSP QQKLVCRLKV VQLITQSPSQ</p> <p>RVNLETMCAD DLLSVLLYLL VKTEIPNWMA NLSYIKNFRF SSLAKDELGY CLTSFEAAIE</p> <p>YIRQGSLSAK PPESEFGDR LFLKQRMSLL SQMTSSPTDC LFKHIASGNQ KEVERLLSQE</p> <p>DHDKDTVQKM CHPLCFCDCC EKLVSGLRLND PSVTPFSRD DRGHTPLHVA AVCGQASLID</p> <p>LLVSKGAMVN ATDYHGATPL HLACQKGYQS VTLNLLHYKA SAEVQDNNGN TPLHLACTYG</p> <p>HEDCVKALVY YDVESCRLDI GNEKGDTPH IAARWGYQGV IETLLQNGAS TEIQNRLKET</p> <p>PLKCALNSKI LSVMEAYHLS FERRQKSSEA PVQSPQRSVD SISQESSTSS FSSMSASSRQ</p>

EETKKDYREV EKLLRAVADG DLEMVRYLLE WTEEDLEDAE DTVSAADPEF CHPLCQCPKC
APAQKRLAKV PASGLGVNVT SQDGSSPLHV AALHGRADLI PLLLKHGANA GARNADQAVP
LHLACQQGHF QVVKCLLDSN AKPNKKDLSG NTPLIYACSG GHHELVALLL QHGASINASN
NKGNTALHEA VIEKHVFEVVE LLLLHGASVQ VLNKRQRTAV DCAEQNSKIM ELLQVVPSCV
ASLDDVAETD RKEYVTVKIR KKWNSKLYDL PDEPFTRQFY FVHSAGQFKG KTSREIMARD
RSVPNLTEGS LHEPGRQSVT LRQNNLPAQS GSHAAEKGNS DWPERPGLTQ TGPGHRRMLR
RHTVEDAVVS QGPEAAGPLS TPQEVSAERS

Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

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

Target Details

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, 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months