

Datasheet for ABIN7563886
ARHGEF2 Protein (AA 1-985) (His tag)



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Overview

Quantity:	1 mg
Target:	ARHGEF2
Protein Characteristics:	AA 1-985
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGEF2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Arhgef2 Protein expressed in mammalien cells.
Sequence:	MSRIESLTRA RIDRSKEQAT KTREKEKMKE AKDARYTNGH LFTTISVSGM TMCYACNKSI TAKEALICPT CNVTIHNRC DTLANCTKVK QKQKAALLR NNTALQSVSL RSKTTTTRERP TSAIYPSDSF RQSLGSRRG LSSLSLAKSV STTNIAGHFN DESPLGLRQI LSQSTDLSNM RNRTLVSVEL IDEGVEVFYN ELMSDFEMDE KDFEADSWSL AVDSSFLQQH KKEVMKKQDV IYELIQTELH HVRTLKIMTR LFRTGMLEEL QMEPEVVQGL FPCVDELSDI HTRFLNQLLE RRRQALCPGS TRNFVIHRLG DLLISQFSGS NAEQMRKTYS EFCRHTKAL KLYKELYARD KRFQQFIRKM TRSAVLKRHG VQECILLVTQ RITKYPVLIN RILQNSHGVE EEYQDLASAL GLVKELLSNV DQDVHELEKE ARLQEIYNRM DPRAQTPVPG KGPFGRELL RRKLIHEGCL LWKTATGRFK DVLLLLMTDV LVFLQEKDQK YIFTSLDKPS VVSLQNLIVR DIANQAKGMF LISSGPPEMY EVHAASRDDR TTWIRVIQQS VRLCPSREDF PLIETEDKAY LRRIKTKLQQ KNQALVELLQ KNVELFAEMV HFQALKAGFV GMPPPALPRG LFRLESFESL RGERLLKDAL

REVEGLKDLL LGPCVDLPMT SREPALPLDS DSGSCPGVTA NGEARTFNNGS IELCRADSDS
SQKDRNGNQL RSPQEEVLQP LINLYGLLHG LQAVVVQQR LMEALFPEGP ERWEKLSRAN
SRDGEAGRAA VASVTPEKQA TELALLQRQH TLLQEELRRC QRLGEERATE AGSLEARLRE
SEQARALLER EAAEIRRQLA ALGQNEPLPA EAPWARRPLD PRRRSLPAGD ALYLSFNPPQ
PSRGHDRLDL PVTVRSLHRP FDDREAQELG SPEDRLQDSS DPDTGSEEEV SSRLSPPHSP
RDFTRMQDIP EETESRDGEP TASES **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:

ARHGEF2

Alternative Name:

Arhgef2 ([ARHGEF2 Products](#))

Background:

Rho guanine nucleotide exchange factor 2 (Guanine nucleotide exchange factor H1) (GEF-H1) (LBC'S first cousin) (Lymphoid blast crisis-like 1) (Oncogene LFC) (Rhobin),FUNCTION: Activates Rho-GTPases by promoting the exchange of GDP for GTP. May be involved in epithelial barrier permeability, cell motility and polarization, dendritic spine morphology, antigen presentation, leukemic cell differentiation, cell cycle regulation, innate immune response, and

Target Details

cancer. Binds Rac-GTPases, but does not seem to promote nucleotide exchange activity toward Rac-GTPases. May stimulate instead the cortical activity of Rac. Inactive toward CDC42, TC10, or Ras-GTPases. Forms an intracellular sensing system along with NOD1 for the detection of microbial effectors during cell invasion by pathogens. Involved in innate immune signaling transduction pathway promoting cytokine IL6/interleukin-6 and TNF-alpha secretion in macrophage upon stimulation by bacterial peptidoglycans, acts as a signaling intermediate between NOD2 receptor and RIPK2 kinase. Contributes to the tyrosine phosphorylation of RIPK2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Overexpression activates Rho-, but not Rac-GTPases, and increases paracellular permeability (By similarity). Involved in neuronal progenitor cell division and differentiation (PubMed:28453519). Involved in the migration of precerebellar neurons (PubMed:28453519). {ECO:0000250|UniProtKB:Q865S3, ECO:0000250|UniProtKB:Q92974, ECO:0000269|PubMed:28453519}.

Molecular Weight: 112.0 kDa

UniProt: [Q60875](#)

Pathways: [Negative Regulation of intrinsic apoptotic Signaling](#)

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