

Datasheet for ABIN7563835

ARHGAP44 Protein (AA 1-814) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ARHGAP44
Protein Characteristics:	AA 1-814
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGAP44 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Arhgap44 Protein expressed in mammalien cells.
Sequence:	MKKQFNMRQ LANQTVGRAE KTEVLSEDLL QVEKRLELVK QVSHSTHKKL TACLQGQQGA EADKRSKKLP LTTLAQCLVE GSAILGDDTL LGKMLKLCGE TEDKLAQELI HFELQVERDV IEPLFLLAEV EIPNIQKQRK HLAKLVLDM DSSRTRWQQTSS KSSGLSSSLQ PAGAKADALR EEMEEAANRV EICRDQLSAD MYSFVAKEID YANYFQTLIE VQAEYHRKSL TLLQAVLPQI KAQQEAWVEK PSFGKPLEEH LMISGREIAF PIEACVTMLL ECGMQEGLF RVAPSASKLK KLKAALDCCV VDVQEYSADP HAIAGALXSY LRELPEPLMT FELYDEWIQA SNIQEQDKRL QALWNACEKL PKANHNNIKY LIKFLSKLSE YQDVNKMTPS NMAIVLGP NL LWPQSEGNIT EMMTTVSLQI VGIIEPIIQH ADWFFPGEIE FNLTGSYGSP VHVNHANANYS SMPSPDMDPA DRRQPEQARR PLSVATDNMM LEFYKKDGLR KIQSMGVRVM DTSWVARRGS SAGRKASCAP PSMQPPAPPS ELAAPLP SPL PEQVPDSPAT PAPALSPSGA SLQPTPERPS VSKSKELSPG SGQKGSPPSI QGTPCPGTQL GPQPAASPSQ LPADQSPHTL RKVSKKVAPI PPKVPFVQPG

Product Details

TVSDQPVGQP SPVLSPTPP STPSYGLSY PPGYSMASGQ LSPASAPPLA SPSVFTSTLA
KSRPTPKPRQ RPTLPPQPP SVLSASSPQ STEHPMLDGM SPGESMSTDL VHFDVPSIHI
ELGSTLRLSP LEHARRHSAT DKRDSEEESE STAL **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:

ARHGAP44

Alternative Name:

Arhgap44 ([ARHGAP44 Products](#))

Background:

Rho GTPase-activating protein 44 (Rho-type GTPase-activating protein RICH2) (RhoGAP interacting with CIP4 homologs protein 2) (RICH-2),FUNCTION: GTPase-activating protein (GAP) that stimulates the GTPase activity of Rho-type GTPases. Thereby, controls Rho-type GTPases cycling between their active GTP-bound and inactive GDP-bound states. Acts as a GAP at least for CDC42 and RAC1 (PubMed:24352656, PubMed:26969129). In neurons, is involved in dendritic spine formation and synaptic plasticity in a specific RAC1-GAP activity (PubMed:23739967, PubMed:24352656, PubMed:26969129). Limits the initiation of exploratory

Target Details

dendritic filopodia. Recruited to actin-patches that seed filopodia, binds specifically to plasma membrane sections that are deformed inward by acto-myosin mediated contractile forces. Acts through GAP activity on RAC1 to reduce actin polymerization necessary for filopodia formation (By similarity). In association with SHANK3, promotes GRIA1 exocytosis from recycling endosomes and spine morphological changes associated to long-term potentiation (PubMed:23739967). {ECO:0000250|UniProtKB:F1LQX4, ECO:0000269|PubMed:23739967, ECO:0000269|PubMed:24352656, ECO:0000269|PubMed:26969129}.

Molecular Weight: 89.0 kDa

UniProt: [Q5SSM3](#)

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