

Datasheet for ABIN7555195

ARHGAP10 Protein (AA 1-786) (His tag)



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Overview

Quantity:	1 mg
Target:	ARHGAP10
Protein Characteristics:	AA 1-786
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARHGAP10 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat ARHGAP10 Protein expressed in mammalian cells.
Sequence:	<p>MGLQPLEFSD CYLDSPWFRE RIRAHEAELE RTNKFIELI KDGKNLIAAT KSLSVAQRKF</p> <p>AHSLRDFKFE FIGDAVTDDE RCIDASLREF SNFLKNLEEQ REIMALSVTE TLIKPLEKFR</p> <p>KEQLGAVKEE KKKFDKETEK NYSLIDKHLN LSAKKKDSHL QEADIQVEQN RQHFYELSLE</p> <p>YVCKLQEIQE RKKFEFVEPM LSFFQGMFTF YHQGHELAKD FNHYKMELQI NIQNTRNRFE</p> <p>GTRSEVEELM NKIRQNP KDH KRASQFTAEG YLYVQEK RPA PFGSSWVKHY CMYRKA AKKF</p> <p>NMIPFEHRSG GKLGDGEVFF LKECTKRHTD SIDRRFCFDI EAADRP GVSL TMQAFSEEEER</p> <p>KQWLEALGGK EALSHSFNTA IIPRPEGNAQ LDKMGFTIIR KCISAVETRG INDQGLYRVV</p> <p>GVSSKVQRL SMLMDVKTCN EVDLENSADW EVKTITSALK QYLRSLPEPL MTYELHGDFI</p> <p>VPAKSGSPES RVNAIHLVH KLPEKNK EML DILVKHL TNV SNHSKQNLMT VANLG VVFGP</p> <p>TLMRPQEETV AALMDLKFQN IVVEIL IENH EKIFRTPPDT TFPEPTCLSA SPPNAPPRQS</p> <p>KRQGQRTKRP VAVYNLCLEL EDGDNPYPSK EDTPTSSLDS LSSPSPVTTA VPGPPGPDKN</p>

HLADGGSFG DWASTIPGQT RSSMVQWLNQ QSPTTSSNS AVTPLSPGSS PFPFSPATV
ADKPPESIRS RKARAVYPCE AEHSSELSFE IGAIFEDVQT SREPGWLEGT LNGKRGLIPQ NYVKLL

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	ARHGAP10
Alternative Name:	ARHGAP10 (ARHGAP10 Products)
Background:	<p>Rho GTPase-activating protein 10 (GTPase regulator associated with focal adhesion kinase 2) (GRAF2) (Graf-related protein 2) (Rho-type GTPase-activating protein 10),FUNCTION: GTPase-activating protein that catalyzes the conversion of active GTP-bound Rho GTPases to their inactive GDP-bound form, thus suppressing various Rho GTPase-mediated cellular processes (PubMed:11432776). Also converts Cdc42 to an inactive GDP-bound state (PubMed:11432776). Essential for PTKB2 regulation of cytoskeletal organization via Rho family GTPases. Inhibits PAK2 proteolytic fragment PAK-2p34 kinase activity and changes its localization from the nucleus to the perinuclear region. Stabilizes PAK-2p34 thereby increasing stimulation of cell</p>

Target Details

death (By similarity). Associates with MICAL1 on the endosomal membrane to promote Rab8-Rab10-dependent tubule extension. After dissociation with MICAL1, recruits WDR44 which connects the endoplasmic reticulum (ER) with the endosomal tubule, thereby participating in the export of a subset of neosynthesized proteins (PubMed:32344433).
{ECO:0000250|UniProtKB:Q6Y5D8, ECO:0000269|PubMed:11432776, ECO:0000269|PubMed:32344433}.

Molecular Weight: 89.4 kDa

UniProt: [A1A4S6](#)

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