

Recombinant Full Length Human ARHGEF11 Protein, C-Flag-tagged

Cat. No. ARHGEF11-884HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ARHGEF11 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. A similar protein in rat interacts with glutamate transporter EAAT4 and modulates its glutamate transport activity. Expression of the rat protein induces the reorganization of the actin cytoskeleton and its overexpression induces the formation of membrane ruffling and filopodia. Two alternative transcripts encoding different isoforms have been described.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	172.1 kDa
AA Sequence	MSVRLPQSIDRLSSLSSLGDSAPERKSPSHHRQPSDASETTGLVQRCVVIQKDQHGF GFTVSGDRIVLVQ SVRPGGAAMKAGVKEGDRIIKVNGTMVTNSSHLEVVKLIKSGAY VALTLLGSSPSSMGISGLQQDPSPAG APRITSVIPSPPPPPLPPPQRITGPKPLQDP EVQKHATQILRNMLRQEEKELQRICEVYSRNPASLLEE QIEGARRRVTQLQLKIQQE

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TGGSVDILPLYGDTSQRPSEGRSLDSQEGDSGLDSGTERFPSLSESLMNR NSVLS
 DPGLDSPRTSPVIMARVAQHHRQGSDAAVPSTGDQGVQSPKPLIGPEEDYDPG
 YFNNESDII FQDLEKLKSRPAHLGVFLRYIFSQADPSPLLFYLCAEVYQQASPKDSRS
 LGKDIWNIFLEKNAPLRVKIP EMLQAEIDSRLRNSEDARGVLCEAQEAAMPEIQEQIH
 DYRTKRTLGLGSLYGENDLLDLGDPLRERQVA EKQLAALGDILSKYEEDRSAPMD
 FALNTYMSHAGIRLREARPSNTAEKAQSAPDKDKWLPFFPKTKKSSN SKKEKDALE
 DKKRNPILKYIGKPKSSSQSTFHIPLSPVEVKPGNVRNIIQHFENNQQYDAPEPGTQR
 LST GSPEDLLESDDRSEIRLGRSESLKGREEMKRSRKAENVPRSRSDVMDAAA
 EATRLHQSASSSTSSLS TRSLENPTPPFTPKMGRRSIESPSLGFCTDTLLPHLLEDD
 LGQLSDLEPEPDAQNWQHTVGKDVVAGLTQ REIDRQEVINELFVTEASHLRTLRLV
 DLIFYQRMKKENLMPREELARLFPNLPELIEIHNSWCEAMKKLR EEGPIIKEISDLMLA
 RFDGPAREELQQVAAQFCSYQSIALELIKTKQRKESRFQLFMQEAESHPQCRRLQ L
 RDLIISEMQRLTKYPLLLESIIKHTEGGTSEHEKLCRARDQCREILKYVNEAVKQTENR
 HRLEGYQKRL DATA LERASNPLAAEFKSLDLTTRKMIHEGPLTWIRSKDKTDLHLV
 LLEDLLVLLQKQDEKLLKCHSK TAVGSSDSKQTFSPVLKLNALIRSVATDKRAFFII
 CTSKLGPPQIYELVALTSSDKNTWMELLEAVRN ATRHPGAAMPVHPPPPGPREP
 AQQGPTPSRVELDDSDVFHGEPEPEELPGGTGSQQRVQGKHQVLLEDP EQEGSA
 EEEELGVLPSTSLDGENRGIRTRNPIHLAFPGPLFMEGLADSALEDVENLRHLILW
 SLLPGH TMETQAAQEPEDDLTTPSVISVTSHPWDGSPGQAPPGGEGDNTQLAG
 LEGERPEQEDMGLCSLEHLPP RTRNSGIWESPELDRNLAEDASSTEAAAGGYKVVR
 KAEVAGSKVVPALPESGQSEPGPPEVEGGTKATGNC FYVSMPSGPPDSSTDHSEA
 PMSPQPDSLPAGQTEPQPQLQGNDPRRPSRSPPSLALRDVGMIFHTIE QLTLK
 LNRLKDMELAHRELLKSLGGESSGGTTPVGSFHTEAARWTDGSLSPPAKEPLASDS
 RNSHELGPC
 PEDGSDAPLEDSTADAAASPGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Vascular smooth muscle contraction
Full Length	Full L.

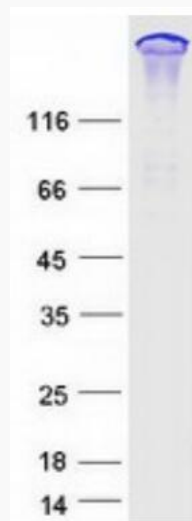
GENE INFORMATION

Gene Name	ARHGEF11 Rho guanine nucleotide exchange factor 11 [Homo sapiens (human)]
Official Symbol	ARHGEF11
Synonyms	GTRAP48; PDZ-RHOGEF
Gene ID	9826
mRNA Refseq	NM_198236.3
Protein Refseq	NP_937879.1
MIM	605708
UniProt ID	O15085

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Coomassie blue staining of purified ARHGEF11 protein.

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