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	MSVRLPQSIDRLSSLSSLGDSAPERKSPSHHRQPSDASETTGLVQRCVIIQKDQHGF GFTVSGDRIVLVQ SVRPGGAAMKAGVKEGDRIIKVNGTMVTNSSHLEVVKLIKSGAY VALTLLGSSPSSMGISGLQQDPSPAG APRITSVIPSPPPPPPLPPPQRITGPKPLQDP EVQKHATQILRNMLRQEEKELQRICEVYSRNPASLLEE QIEGARRRVTQLQLKIQQE

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	TGGSVDILPLYGDTSQRPSEGRLSLDSQEGDSGLDSGTERFPSLSESLMNR NSVLS DPGLDSPRTSPVIMARVAQHHRRQGSDAAVPSTGDQGVDQSPKPLIIGPEEDYDPG YFNNESDII FQDLEKLKSRPAHLGVFLRYIFSQADPSPLLFYLCAEVYQQASPKDSRS LGKDIWNIFLEKNAPLRVKIP EMLQAEIDSRLRNSEDARGVLCEAQEAAMPEIQEQIH DYRTKRTLGLGSLYGENDLLDLDGDPLRERQVA EKQLAALGDILSKYEEDRSAPMD FALNTYMSHAGIRLREARPSNTAEKAQSAPDKDKWLPFFPKTKKSSN SKKEKDALE DKKRNPILKYIGKPKSSSQSTFHIPLSPVEVKPGNVRNIIQHFENNQQYDAPEPGTQR LST GSFPEDLLESDSSRSEIRLGRSESLKGREEMKRSRKAENVPRSRSDVDMDAAA EATRLHQSASSSTSSLS TRSLENPTPPFTPKMGRRSIESPSLGFCTDTLLPHLLEDD LGQLSDLEPEPDAQNWQHTVGKDVVAGLTQ REIDRQEVINELFVTEASHLRTLRVL DLIFYQRMKKENLMPREELARLFPNLPELIEIHNSWCEAMKKLR EEGPIIKEISDLMLA RFDGPAREELQQVAAQFCSYQSIALELIKTKQRKESRFQLFMQEAESHPQCRRLQ L RDLIISEMQRLTKYPLLLESIIKHTEGGTSEHEKLCRARDQCREILKYVNEAVKQTENR HRLEGYQKRL DATALERASNPLAAEFKSLDLTTRKMIHEGPLTWRISKDKTLDLHVL LLEDLLVLLQKQDEKLLLKCHSK TAVGSSDSKQTFSPVLKLNAVLIRSVATDKRAFFII CTSKLGPPQIYELVALTSSDKNTWMELLEEAVRN ATRHPGAAPMPVHPPPPGPREP AQQGPTPSRVELDDSDVFHGEPEPEELPGGTGSQQRVQGKHQVLLEDP EQEGSA EEEELGVLPCPSTSLDGENRGIRTRNPIHLAFPGPLFMEGLADSALEDVENLRHLILW SLLPGH TMETQAAQEPEDDLTPTPSVISVTSHPWDPGSPGQAPPGGEGDNTQLAG LEGERPEQEDMGLCSLEHLPP RTRNSGIWESPELDRNLAEDASSTEAAGGYKVVR KAEVAGSKVVPALPESGQSEPGPPEVEGGTKATGNC FYVSMPSGPPDSSTDHSEA PMSPPQPDSLPAGQTEPQPQLQGGNDDPRRPSRSPPSLALRDVGMIFHTIE 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.

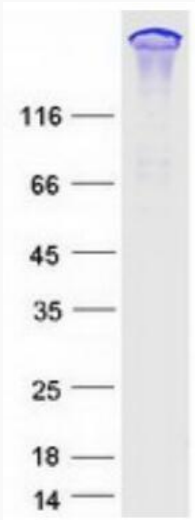
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Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable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