

Recombinant Human ARHGEF11 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. ARHGEF11-214H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARHGEF11 MS Standard C13 and N15-labeled recombinant protein (NP_937879) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. [provided by RefSeq, Jul 2008]
Molecular Mass	172.1 kDa
AA Sequence	MSVRLPQSIDRLSSLSSLGDSAPERKSPSHHRQPSDASETTGLVQRCVVIQKDQHGF GFTVSGDRIVLVQSVRPGGAAMKAGVKEGDRIIKVNGTMVTNSSHLEVVKLIKSGAY VALTLLGSSPSSMGISGLQQDPSPAGAPRITSVIPSPPPPPPLPPPQRITGPKPLQDP EVQKHATQILRNMLRQEEKELQRICEVYSRNPASLLEEQIEGARRRVTQLQLKIQQE TGGSDILPLYGDTSQRPSEGRSLDSQEGDGLDSGTERFPSLSESLMNRNSVLS

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DPGLDSPRTSPVIMARVAQHHRQGSDDAAVPSTGDQGVQSPKPLIIGPEEDYDPG
 YFNNESDIIFQDLEKLKSRPAHLGVFLRYIFSQADPSPLLFLYLCAEVYQQASPKDSRS
 LGKDIWNIFLEKNAPLRVKIPEMLQAEIDSRLRNSEDARGVLCEAQEAAMPEIQEQIH
 DYRTKRTLGLGSLYGENDLLDLGDPLRERQVAEKQLAALGDILSKYEEDRSAPMD
 FALNTYMSHAGIRLREARPSNTAEKAQSAPDKDKWLPFFPKTKKSSNSKKEKDALE
 DKKRNPILKYIGKPKSSSQSTFHIPLSPVEVKPGNVRNIIQHFENNQQYDAPEPGTQR
 LSTGSFPEDLLESDDRSEIRLGRSESLKGREEMKRSRKAENVPRSRSDVDMDDAAA
 EATRLHQSSASSTSSLSTRSLENPTPPFTPCKMGRRSIESPSLGFCTDTLLPHLLEDDL
 GQLSDLEPEPDAQNWQHTVGKDVVAGLTQREIDRQEVINELFVTEASHLRTLRLVLDL
 IFYQRMKKENLMPREELARLFPNLPHELIEIHNSWCEAMKKLREEGPPIKEISDLMLARF
 DGPAREELQQVAAQFCSYQSIALELIKTKQRKESRFQLFMQEAESHPQCRRLQLRD
 LISEMQRLLTKYPLLLSIIKHTEGGTSEHEKLCRARDQCREILKYVNEAVKQTENRHR
 LEGYQKRLDATAALERASNPLAAEFKSLDLTTRKMIHEGPLTWRISKDKTLDLHVLLLE
 DLLVLLQKQDEKLLKCHSKTAVGSSDSKQTFSPVLKLNVLIRSVATDKRAFFIICTS
 KLGPPQIYELVALTSSDKNTWMELLEEAVERNATRHPGAAPMPVHPPPPGPREPAQQ
 GPTPSRVELDDSDVFHGEPEPEELPGGTGSQQRVQGHQVLLLEDPEQEGSAEEEE
 LGVLPCPSTSLDGENRGIRTRNPIHLAFPGPLFMEGLADSALEDVENLRHLILWSLLP
 GHTMETQAAQEPEDDLTPTPSVISVTSHPWDPGSPGQAPPGGEGDNTQLAGLEGE
 RPEQEDMGLCSLEHLPPRTRNSGIWESPELDRNLAEDASSTEAAAGGYKVVRKAEVA
 GSKVVPALPESGQSEPGPPEVEGGTKATGNCFYVSMPSGPPDSSTDHSEAPMSPP
 QPDSLPAQGTEPQPQLQGGNDDPRRPSRSPPSLALRDVGMIFHTIEQLTLKLNRLK
 DMELAHRELLKSLGGESSGGTTPVGSFHTAARWTDGSLSPPAKEPLASDSRNSH
 ELGPCPEDGSDAPLEDSTADAAASPGPTRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

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

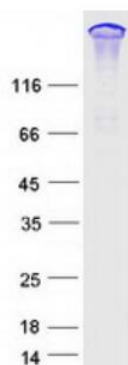
Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	ARHGEF11 Rho guanine nucleotide exchange factor (GEF) 11 [Homo sapiens (human)]
Official Symbol	ARHGEF11
Synonyms	ARHGEF11; Rho guanine nucleotide exchange factor (GEF) 11; rho guanine nucleotide exchange factor 11; GTRAP48; KIAA0380; PDZ RHOGEF; Rho guanine exchange factor (GEF) 11; RhoGEF glutamate transport modulator; RhoA-specific guanine nucleotide exchange factor; glutamate transporter EAAT4-associated protein 48; PDZ-RHOGEF; DKFZp667F1223;
Gene ID	9826
mRNA Refseq	NM_198236
Protein Refseq	NP_937879
MIM	605708
UniProt ID	O15085

SDS-PAGE

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