Recombinant Human Ras Homolog Family Member G, His-tagged

Cat. No. RHOG-6843H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RHOG protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-188aa
Description	RHOG is a member of the Rac subfamily of the Rho family of small G proteins. RHOG is a small monomeric GTP-binding protein, and is an important component of many intracellular signalling pathways. This protien are required for the formation of membrane ruffles during macropinocytosis. It plays a role in cell migration and is required for the formation of cup-like structures during trans-endothelial migration of leukocytes.
Form	Liquid. In 20 mM Tris-HCl buffer, pH8.0, 40% glycerol, 5mM DTT, 200mM NaCl.
Molecular Mass	25.2kDa (225aa) confirmed by MALDI-TOF
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMQS IKCVVVGDGA VGKTCLLICY TTNAFPKEYI PTVFDNYSAQ SAVDGRTVNL NLWDTAGQEE YDRLRTLSYP QTNVFVICFS IASPPSYENV RHKWHPEVCH HCPDVPILLV GTKKDLRAQP DTLRRLKEQG QAPITPQQGQ ALAKQIHAVR YLECSALQQD

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	GVKEVFAEAV RAVLNPTPIK RGRSC
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	RHOG ras homolog family member G [Homo sapiens]
Official Symbol	RHOG
Synonyms	RHOG; ras homolog family member G; ARHG, ras homolog gene family, member G (rho G); rho-related GTP-binding protein RhoG; MGC125835; MGC125836; RhoG; ras homolog gene family, member G (rho G); ARHG;
Gene ID	391
mRNA Refseq	NM_001665
Protein Refseq	NP_001656
MIM	179505
UniProt ID	P84095

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Chromosome Location	11p15.5-p15.4
Pathway	Axon guidance, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; Developmental Biology, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPVI-mediated activation cascade, organism-specific biosystem;
Function	GTP binding; GTPase activity; nucleotide binding; protein binding;

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