

Recombinant Human RHOG, His-tagged

Cat. No. RHOG-30980TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 32-191 of Human RHOG with an N terminal His tag; MWt 19kDa.
Species	Human
Source	E.coli
ProteinLength	32-191 a.a.
Description	This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. The encoded protein facilitates translocation of a functional guanine nucleotide exchange factor (GEF) complex from the cytoplasm to the plasma membrane where ras-related C3 botulinum toxin substrate 1 is activated to promote lamellipodium formation and cell migration. Two related pseudogene have been identified on chromosomes 20 and X.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 104 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	YIPTVFDNYSQAQSAVDGRTVNLNLWDTAGQEEYDRLRTLSPQNTNVFVICFSIASPP SYENVVRHKWHPEVCHHCPDVP ILLVGTKKDLRAQPDTLRLKEQGQAPITPQQGQ ALAK QIHAVRYLECSALQQDGVKEVFAEAVRAVLNPTPIKRG RSCILL
Sequence Similarities	Belongs to the small GTPase superfamily. Rho family.
GENE INFORMATION	
Gene Name	RHOG ras homolog gene family, member G (rho G) [Homo sapiens]
Official Symbol	RHOG
Synonyms	RHOG; ras homolog gene family, member G (rho G); ARHG; rho-related GTP-binding protein RhoG; MGC125835; MGC125836; RhoG;
Gene ID	391
mRNA Refseq	NM_001665
Protein Refseq	NP_001656
MIM	179505
Uniprot ID	P84095
Chromosome Location	11p15.5-p15.4
Pathway	Axon guidance, organism-specific biosystem; Bacterial invasion of epithelial cells,

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organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; Developmental Biology, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem;

Function

GTP binding; GTPase activity; nucleotide binding; protein binding;

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