Recombinant Human ras homolog family member Q, His-tagged

Cat. No. RHOQ-566H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RHOQ, 1-202aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-202 a.a.
Description	RHOQ, also known as rho-related GTP-binding protein RhoQ, is a small signaling G protein (more specifically a GTPase), and is a member of the Rac subfamily of the family Rho family of GTPases. It involved in epithelial cell polarization processes. It may play a role in CFTR trafficking to the plasma membrane. It causes the formation of thin, actin-rich surface projections called filopodia. Recombinant human RhoQ protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT
Molecular Mass	24.7kDa (225aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAHGPGA LMLKCVVVGD GAVGKTCLLM SYANDAFPEE YVPTVFDHYA VSVTVGGKQY LLGLYDTAGQ EDYDRLRPLS YPMTDVFLIC FSVVNPASFQ NVKEEWVPEL KEYAPNVPFL LIGTQIDLRD DPKTLARLND MKEKPICVEQ GQKLAKEIGA CCYVECSALT QKGLKTVFDE

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	AIIAILTPKK HTVKKRIGSR CINCC
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	RHOQ ras homolog family member Q [Homo sapiens]
Official Symbol	RHOQ
Synonyms	RHOQ; ras homolog family member Q; ARHQ, ras homolog gene family, member Q , RAS like, family 7, member A , RASL7A; rho-related GTP-binding protein RhoQ; TC10; ras-like protein TC10; RAS-like, family 7, member A; ras homolog gene family, member Q; ras-like protein family member 7A; ARHQ; TC10A; RASL7A;
Gene ID	23433
mRNA Refseq	NM_012249
Protein Refseq	NP_036381
MIM	605857
UniProt ID	P17081
Chromosome Location	2p21

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Pathway	Insulin Pathway, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem; Insulin-mediated glucose transport, organism-specific biosystem; Rho GTPase cycle, organism-specific biosystem; Signal Transduction, organism-specific biosystem;
Function	GBD domain binding; GTP binding; GTPase activity; nucleotide binding; profilin binding;

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