

Recombinant Full Length Human Ras Homolog Gene Family, Member C / RHOC Protein, His-tagged

Cat. No. RHOC-1628H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human RHOC was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	1-193 a.a.
Description	RHOC is member of the Rho family of small GTPases which promote reorganization of the actin cytoskeleton during cell morphogenesis and motility and regulate cell shape, attachment and motility. Active RHOC signals to its downstream effector ROCK which phosphorylates and activates LIM kinase that in turn phosphorylates cofilin inhibiting its actin-depolymerizing activity. Overexpression of RhoC is associated with tumor cell proliferation and metastasis while dominant-negative RHOC inhibits metastasis.
Applications	Kinase Assay; Western Blot
Molecular Weight	23 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.
Purity	> 75 %
Concentration	0.2 ug/ul
Sequences	Full length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Axon guidance; G alpha (12/13) signalling events; GPCR downstream signaling; Rho GTPase cycle; Sema4D in semaphorin signaling; Sema4D induced cell migration and growth-cone collapse; Semaphorin interactions; Signaling by GPCR; Signaling by Rho GTPases; Signaling events mediated by PRL
Full Length	Full L.

GENE INFORMATION

Gene Name	RHOC ras homolog gene family, member C [Homo sapiens]
Official Symbol	RHOC
Synonyms	RHOC; ras homolog gene family, member C; H9; ARH9; ARHC; RHOH9; MGC1448; MGC61427; rho-related GTP-binding protein RhoC; rhoC GTPase; oncogene RHO H9; rho cDNA clone 9; OTTHUMP00000013675; OTTHUMP00000013676; OTTHUMP00000013802; OTTHUMP00000013803; OTTHUMP00000013804; OTTHUMP00000013805; OTTHUMP00000013806; OTTHUMP00000013807; OTTHUMP00000013809; OTTHUMP00000229713; OTTHUMP00000229714; RAS-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

related homolog 9; small GTP binding protein RhoC; Rho-related GTP-binding protein RhoC; Rho cDNA clone 9

Gene ID [389](#)

mRNA Refseq [NM_001042678](#)

Protein Refseq [NP_001036143](#)

MIM [165380](#)

UniProt ID [P08134](#)

Chromosome Location [1p13.1](#)

Function GTP binding; GTPase activity; protein domain specific binding; nucleotide binding; signal transducer activity

PDBrendering based on 1a2b.

