

Recombinant Full Length Human RHOC

Cat. No. RHOC-30286TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RHOC protein; amino acids 1-193, Predicted MWt 22kDa.
Species	Human
Source	E.coli
ProteinLength	1-193 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 protein encoded by this gene is prenylated at its C-terminus, and localizes to the cytoplasm and plasma membrane. It is thought to be important in cell locomotion. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 40mM Sodium chloride, 25mM HEPES, 2mM DTT, 2mM Magnesium chloride, 0.01mM GDP, pH 7.2

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the small GTPase superfamily. Rho family.
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; ARH9, ARHC; rho-related GTP-binding protein RhoC; RhoC;
Gene ID	389
mRNA Refseq	NM_001042678
Protein Refseq	NP_001036143
MIM	165380
Uniprot ID	P08134
Chromosome Location	1p13.1
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem;

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GPCR downstream signaling, organism-specific biosystem; Rho GTPase cycle, organism-specific biosystem;

Function

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

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