

Active Recombinant Human RHOA protein, GST-tagged

Cat. No. RHOA-34H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human RHOA fused with GST tag in the amino-terminus was expressed in E. coli.
Species	Human
Source	E.coli
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. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants have been identified.
Form	The protein is supplied as a lyophilized powder. When it is reconstituted in distilled water to 1 mg/ml, the protein is in the following buffer: 2 mM Tris pH 7.6, 0.5 mM MgCl ₂ , 0.5% sucrose, 0.1% dextran.
Bio-activity	The biological activity of RhoA proteins was monitored by measuring the ability of the protein to hydrolyze GTP in the presence and absence of a GTPase-activating protein.
Molecular Mass	The recombinant protein is 52 kDa, consisting of the 24 kDa RhoA protein plus a 28 kDa GST tag in the amino-terminus.

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Purity	90%
Applications	RhoA biochemistry; RhoA GTPase assays; RhoA nucleotide exchange assays; RhoA binding studies.
GENE INFORMATION	
Gene Name	RHOA ras homolog family member A [Homo sapiens]
Official Symbol	RHOA
Synonyms	RHOA; ras homolog family member A; ARH12, ARHA, ras homolog gene family, member A; transforming protein RhoA; Rho12; RhoA; RHOH12; h12; oncogene RHO H12; rho cDNA clone 12; Aplysia ras-related homolog 12; small GTP binding protein RhoA; ras homolog gene family, member A; ARHA; ARH12; RHO12;
Gene ID	387
mRNA Refseq	NM_001664
Protein Refseq	NP_001655
MIM	165390
UniProt ID	P61586
Chromosome Location	3p21.3

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Pathway

Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Arf6 downstream pathway, organism-specific biosystem; Aurora B signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;

Function

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

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