

Recombinant Human RHOA protein, His-tagged

Cat. No. RHOA-32H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human RHOA fused with histidine tag in the amino-terminus was expressed in E. coli. The constitutively active form of human RhoA protein contains a glutamine to leucine substitution at residue 63. The common name for this mutant is RhoA(Q63L) or L63RhoA. The leucine substitution prevents endogenous and GAP-stimulated GTPase activity of RhoA, hence the protein is always in the active, GTP-bound, state. The corresponding mutation in Ras (Ras(Q61L)) behaves as an oncogenic mutation.

Species Human

Source E.coli

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 MgCl₂, 0.5% sucrose and 0.1% dextran.

Molecular Mass The recombinant protein is 25 kDa, consisting of the 22 kDa RhoA constitutively active protein plus a histidine tag in the amino-terminus.

Purity 90%

Applications RhoA effector and GAP identification and binding studies;
Activation of RhoA effectors in vitro and in vivo;
Stimulation of RhoA phenotype by microinjection into cells.

 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

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
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;

 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