

Recombinant Human Ras Homolog Gene Family, His-tagged

Cat. No. RHOA-3372H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RhoA protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 25.7 kDa(227aa).
Species	Human
Source	E.coli
ProteinLength	1-190 a.a.
Description	RhoA belongs to the small GTPase superfamily, Rho family, proteins involved in the regulation and timing of cell division. This protein is a small GTPase protein to regulate the actin cytoskeleton in the formation of stress fibers and acts upon two known effector proteins: ROCK1 (Rho-associated, coiled-coil containing protein kinase 1) and DIAPH1 (diaphanous homolog 1 (Drosophila)).
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT.
Purity	> 90% by SDS - PAGE.
Concentration	1.0 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMAA IRKKLVIVGD GACGKTCLLI VFSKDQFPEV YVPTVFENYV ADIEVDGKQV ELALWDTAGQ EDYDRLRPLS YPDTDVILMC FSIDSPDSLE NIPEKWTPEV KHFCPNVPPII

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LVGNKKDLRN DEHTRRELAK MKQEPVKPEE GRDMANRIGA FGYPECSAKT
KDGVREVFEM ATRAALQARR GKKKSGC.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Adherens junction; Axon guidance; Chemokine signaling pathway; Colorectal cancer; Leukocyte transendothelial migration; Neurotrophin signaling pathway; Pathogenic Escherichia coli infection; Regulation of actin cytoskeleton; T cell receptor signaling pathway; TGF-beta signaling pathway; Tight junction; Vascular smooth muscle contraction; Wnt signaling pathway; Signaling by Rho GTPases; Signaling by GPCR; Signalling by NGF

GENE INFORMATION

Gene Name

RHOA ras homolog gene family, member A [Homo sapiens]

Synonyms

RHOA; ras homolog gene family, member A; ARHA; ARH12; RHO12; RHOH12; oncogene RHO H12; Aplysia ras-related homolog 12; small GTP binding protein RhoA

Gene ID

387

mRNA Refseq

NM_001664

Protein Refseq

NP_001655

MIM

165390

UniProt ID

P61586

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Chromosome Location	3p21.3
Function	GTP binding; GTPase activity; magnesium ion binding; myosin binding; nucleotide binding; protein binding
PDB rendering based on 1a2b.	