

# Recombinant Full Length Human Ras Homolog Gene Family, Member A / RHOA, His-tagged

Cat. No. RHOA-1627H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length human RHOA was expressed in E. coli cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-193 a.a.
<b>Description</b>	RHOA is a member of the Rho gene family that interacts with protein kinases and serves as a target of activated GTPase. RhoA play an important role in the initial events of cell protrusion, whereas Rac1 and Cdc42 activate pathways implicated in reinforcement and stabilization of newly expanded protrusions. Rho mediates corneal epithelial migration in response to external stimuli by regulating the organization of the actin cytoskeleton.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	23 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	Recombinant protein stored in 50 mM MOPS, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.

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<b>Purity</b>	> 85 %
<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	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
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	RHOA ras homolog gene family, member A [ Homo sapiens ]
<b>Official Symbol</b>	RHOA
<b>Synonyms</b>	RHOA; ras homolog gene family, member A; ARHA; ARH12; RHO12; RHOH12; transforming protein RhoA; h12; oncogene RHO H12; rho cDNA clone 12; OTTHUMP00000210767; OTTHUMP00000210783; OTTHUMP00000210785; Aplysia ras-related homolog 12; small GTP binding protein RhoA; Transforming protein RhoA; Rho cDNA clone 12
<b>Gene ID</b>	387

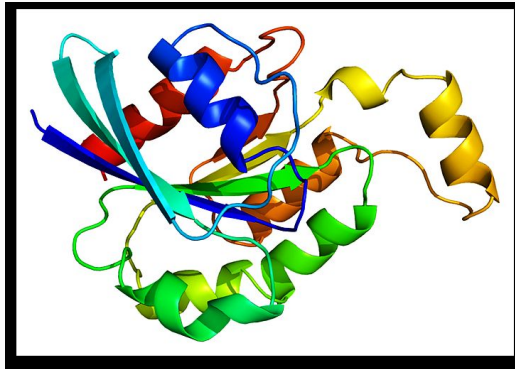
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mRNA Refseq	NM_001664
Protein Refseq	NP_001655
MIM	165390
UniProt ID	P61586
Chromosome Location	3p21.3
Function	GTP binding; GTPase activity; myosin binding; nucleotide binding; protein binding

PDBrendering based on 1a2b.



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