

# Recombinant Human Ras Homolog Gene Family, Member A

**Cat. No.** RHOA-1145H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                    |                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>     | Human                                                                                                             |
| <b>Source</b>      | E.coli                                                                                                            |
| <b>Description</b> | A small GTPase of the Ras superfamily. Regulates stress fiber formation in response to growth factor stimulation. |
| <b>Usage</b>       | For in vitro use only.                                                                                            |
| <b>Form</b>        | Liquid. Supplied in 25 mM HEPES pH 7.2, 40 mM NaCl, 5 mM DTT, 2 mM MgCl <sub>2</sub> and 10 mM GDP.               |
| <b>Purity</b>      | > 90% by SDS-PAGE.                                                                                                |
| <b>Storage</b>     | Quality guaranteed for 12 months, Store at -80°C. Avoid freeze / thaw cycles.                                     |

## GENE INFORMATION

|                  |                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b> | RHOA ras homolog gene family, member A [ Homo sapiens ]                                                                                               |
| <b>Synonyms</b>  | RHOA; ras homolog gene family, member A; ARHA; ARH12; RHO12; RHOH12; oncogene RHO H12; Aplysia ras-related homolog 12; small GTP binding protein RhoA |

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| <b>Gene ID</b>             | 387                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_001664                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_001655                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 165390                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P61586                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 3p21.3                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</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; Signalling by NGF |
| <b>Function</b>            | GTP binding; GTPase activity; magnesium ion binding; myosin binding; nucleotide binding; protein binding                                                                                                                                                                                                                                                                                                                                  |