

# **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

#### **RHOA PROTEIN**

### **RhoA Protein**

Cat.#: 10104

Product Name: RhoA Protein

Synonyms: Ras homolog gene family, member A, ARHA, ARH12, RHO12, RHOH12

**Source:** Human, recombinant full length, His6-tag

Expression Host Species: E. coli

Molecular Weight: 22 kDa Purity: >96% by SDS-PAGE

**Introduction:** Small GTPases are a super-family of cellular signaling regulators. RhoA belongs to the Rho sub-family of GTPases. Rho proteins play critical roles in many actin cytoskeleton- dependent processes including platelet aggregation, cell motility, contraction, and cytokinesis. It regulates the formation of stress fibers and focal adhesions in fibroblasts and Ca2+ sensitivity of smooth muscle contraction.

Amino Acid Sequence (1-193)

MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYD RLRPLSYPDTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRNDEHTRRELAKM KQEPVKPEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLVL

**Properties** 

Physical Appearance (form): Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.

Physical Appearance (form): White or clear

Concentration: 1 mg/mL

Storage: -80°C

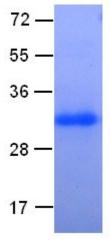
## **Preparation Instructions:**

Centrifuge the vial before open the cap and reconstitute in water. Adding of 10 mM  $\beta$ -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl  $\beta$ -D-maltoside (DoDM) or polyethylene detergents (e.g. C12E10) also help to stabilize the protein. Avoid repeated freezing and thawing after reconstitution. The purity of His-tagged RhoA was determined by SDS- PAGE and Coomassie Brilliant Blue Staining.



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### **References:**

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- 3. Machacek, M. et al., Nature 461: 99-103, 2009 4. Nakamura, M. et al., Invest. Ophthal. Vis. Sci. 42: 941-947, 2001.
- 5. Rao, P. V. et al., Invest. Ophthal. Vis. Sci. 42: 1029-1037, 2001.
- 6. Valderrama, F. et al., Science 311: 377-381, 2006.
- 7. Wang, H.-R. et al., Science 302: 1775-1779, 2003.
- 8. Wu, K. Y. et al., Nature 436: 1020-1024, 2005.
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