

RhoA

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 22kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human RhoA

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

1 mg/ml

Synonym:

RHOA; ARH12; ARHA; RHO12; RHOH12 ;

Catalog #: A0272

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 387

Isotype: IgG

Swiss Prot: P61586

Purity: Affinity purification

For research use only.

Background:

Rho family small GTPases, including Rho, Rac and cdc42, act as molecular switches, regulating processes such as cell migration, adhesion, proliferation and differentiation. They are activated by guanine nucleotide exchange factors (GEFs), which catalyze the exchange of bound GDP for GTP, and inhibited by GTPase activating proteins (GAPs), which catalyze the hydrolysis of GTP to GDP. A third level of regulation is provided by the stoichiometric binding of Rho GDP dissociation inhibitor (RhoGDI) (1). RhoA, RhoB and RhoC are highly homologous, but appear to have divergent biological functions. Carboxy-terminal modifications and differences in subcellular localization allow these three proteins to respond to and act on distinct signaling molecules (2,3). Functions of RhoA, the most highly studied of these three, include regulation of actomyosin contractility (4), cytokinesis (5), focal adhesion assembly (6) and cell polarity (7).

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