



Rabbit anti Rho-GDI Polyclonal Antibody

Alternative Name(s): Rho GDP dissociation inhibitor (GDI) alpha; GDIA1; RHOGDI

Order Information

- **Description:** RhoGDI
- **Catalogue:** 620-560
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

ANTIGEN PREPARATION

A synthetic peptide derived from C-Terminus of human RhoGDI protein. This sequence is identical among human, rat, mouse, bovine, chicken and dog.

BACKGROUND

Rho GTPases (Rac, Rho, and Cdc42) play important roles in regulating cell function through their ability to coordinate the actin cytoskeleton, modulate the formation of signaling reactive oxidant species, and control gene transcription. Activation of Rho GTPase signaling pathways requires the regulated release of Rho GTPases from Rho-GDI complexes, followed by their reuptake after membrane cycling. There are two isoforms, Rho-GDI alpha and Rho-GDI beta play synergistic roles in cell migration and development by modulating activation cycle of the Rho proteins. Src kinase binds and phosphorylates RhoGDI both in vitro and in vivo at Tyr156 which causes a dramatic decrease in the ability of RhoGDI to form a complex with RhoA, Rac1, or Cdc42. Src-mediated RhoGDI phosphorylation is a novel physiological mechanism for regulating Rho GTPase cytosol membrane-cycling and activity.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~23 kDa of human Rho-GDI protein. This antibody also cross-reacts to mouse and rat tissue.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 23.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

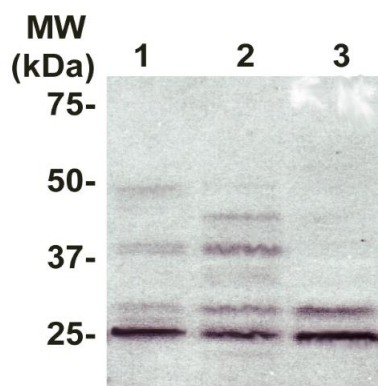
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DATA ATTACHMENTS



Western Blot: The whole lysate derived from MCF7 (Lane 1) and mouse liver (lane 2), rat heart (Lane 3) were separated in 12% SDS-PAGE and transferred onto NC membrane followed by immunoblotting of Rabbit anti-RhoGDI (Cat#620-560) at 1:1000. An immunoreactive band at ~24 kDa was observed.

REFERENCES

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