



## **Rabbit anti Rho-GDI (Phosphospecific) Polyclonal Antibody**

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

### **Order Information**

- **Description:** RhoGDI (pY156)
- **Catalogue:** 620-550
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide surrounding the epitope – CRPEEYEFLL- with a phosphorylation site at Tyrosine 156 of human Rho-GDI alpha 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 Tris-buffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~23 kDa of human Rho-GDI protein at the phosphorylation site of Tyrosine 156. It does not cross react to non-phospho Rho-GDI.

### **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.**

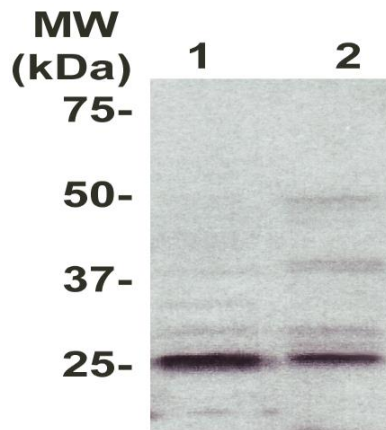
AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)



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**DATA ATTACHMENTS**



Western Blot: The whole cell lysate derived from serum depleted MCF7 (Lane 1) and HELA (Lane 2) were separated in 12% SDS-PAGE and transferred onto NC membrane followed by immunoblotting of Rabbit anti-RhoGDI(pTyr156) (Cat#620-550) at 1:500. An immunoreactive band at ~24 kDa was observed.

**REFERENCES**

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