

**D4-GDI Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10281****Specification**

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**D4-GDI Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P52566</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22988

**D4-GDI Antibody - Additional Information****Gene ID** 397

Application & Usage	<b>Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes 28 kDa D4-GDI in human samples. Jurkat cell lysate can be used as a positive control.</b>
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**Other Names**

ARHGDIB , 602843 , P52566 , D4 , GDIA2 , GDID4 , LYGDI , Ly-GDI , RAP1GN1

**Target/Specificity**

D4-GDI

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

D4-GDI Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **D4-GDI Antibody - Protein Information**

**Name** ARHGDI B

**Synonyms** GDIA2, GDID4, RAP1GN1

### **Function**

Regulates the GDP/GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them (PubMed:<a href="http://www.uniprot.org/citations/8356058" target="\_blank">8356058</a>, PubMed:<a href="http://www.uniprot.org/citations/7512369" target="\_blank">7512369</a>). Regulates reorganization of the actin cytoskeleton mediated by Rho family members (PubMed:<a href="http://www.uniprot.org/citations/8262133" target="\_blank">8262133</a>).

### **Cellular Location**

Cytoplasm, cytosol.

### **Tissue Location**

Detected in bone marrow, thymus and spleen.

## **D4-GDI Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **D4-GDI Antibody - Images**

## **D4-GDI Antibody - Background**

D4-GDI (GDP dissociation inhibitor) is a negative regulator of the ras-related Rho family of GTPases. Since the Rho GTPases promote cytoskeletal and membrane changes associated with apoptotic cell death, the removal of the D4-GDI block through its cleavage is important for inducing apoptosis. Caspase-3 cleaves the 28kD mature form of D4-GDI to give a 23kDa and 5kDa size fragment. The 23kDa fragment then translocates to the nucleus. The mechanisms involving cleavage of D4-GDI with apoptosis are not presently known. Activation of the Jun N-terminal kinase, a regulator of apoptosis, may be one of the mechanisms.