

## **ARHGDIA Antibody (C-term)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2894b

## **Specification**

## **ARHGDIA Antibody (C-term) - Product Information**

Application FC, IHC-P, WB,E

Primary Accession P52565

Other Accession <u>Q5XI73</u>, <u>Q99PT1</u>, <u>Q4R4I0</u>, <u>P19803</u>

Reactivity Human

Predicted Bovine, Monkey, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 23207
Antigen Region 112-140

# ARHGDIA Antibody (C-term) - Additional Information

#### Gene ID 396

## **Other Names**

Rho GDP-dissociation inhibitor 1, Rho GDI 1, Rho-GDI alpha, ARHGDIA, GDIA1

### **Target/Specificity**

This ARHGDIA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 112-140 amino acids from the C-terminal region of human ARHGDIA.

## **Dilution**

FC~~1:10~50 IHC-P~~1:10~50 WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

ARHGDIA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## **ARHGDIA Antibody (C-term) - Protein Information**



## Name ARHGDIA

## Synonyms GDIA1

**Function** Controls Rho proteins homeostasis. 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. Retains Rho proteins such as CDC42, RAC1 and RHOA in an inactive cytosolic pool, regulating their stability and protecting them from degradation. Actively involved in the recycling and distribution of activated Rho GTPases in the cell, mediates extraction from membranes of both inactive and activated molecules due its exceptionally high affinity for prenylated forms. Through the modulation of Rho proteins, may play a role in cell motility regulation. In glioma cells, inhibits cell migration and invasion by mediating the signals of SEMA5A and PLXNB3 that lead to inactivation of RAC1.

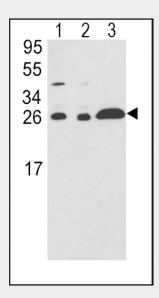
**Cellular Location** Cytoplasm.

## **ARHGDIA Antibody (C-term) - Protocols**

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

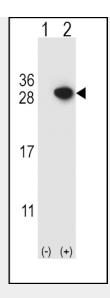
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **ARHGDIA Antibody (C-term) - Images**

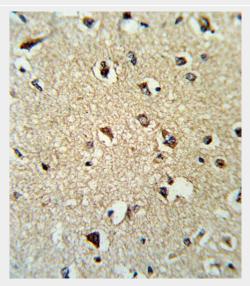


Western blot analysis of ARHGDIA Antibody (C-term) (Cat. #AP2894b) in A375(lane 1),HL-60(lane 2),Ramos(lane 3) cell line lysates (35ug/lane). ARHGDIA (arrow) was detected using the purified Pab.



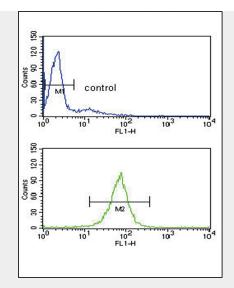


Western blot analysis of ARHGDIA (arrow) using rabbit polyclonal ARHGDIA Antibody (C-term) (Cat. #AP2894b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ARHGDIA gene.



Formalin-fixed and paraffin-embedded human brain tissue reacted with ARHGDIA Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.





ARHGDIA Antibody (C-term) (Cat. #AP2894b) flow cytometry analysis of HL-60 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

# ARHGDIA Antibody (C-term) - Background

ARHGDIA 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.

# **ARHGDIA Antibody (C-term) - References**

Qiao, J., etc, Am. J. Physiol., Cell Physiol. 295 (5), C1161-C1168 (2008)