

**ARHG DIA Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1737a****Specification****ARHG DIA Antibody - Product Information**

Application	<b>WB, FC, ICC, E</b>
Primary Accession	<a href="#">P52565</a>
Reactivity	<b>Human, Mouse, Monkey</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>26kDa KDa</b>

**Description**

Aplysia Ras-related homologs (ARHs), also called Rho genes, belong to the RAS gene superfamily encoding small guanine nucleotide exchange (GTP/GDP) factors. The ARH proteins may be kept in the inactive, GDP-bound state by interaction with GDP dissociation inhibitors, such as ARHG DIA

**Immunogen**

Purified recombinant fragment of human ARHG DIA (AA: FULL(1-204)) expressed in E. Coli. <br /><br />

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**ARHG DIA Antibody - Additional Information**

**Gene ID** 396

**Other Names**

Rho GDP-dissociation inhibitor 1, Rho GDI 1, Rho-GDI alpha, ARHG DIA, GDIA1

**Dilution**

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

ICC~~N/A

E~~1/10000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ARHG DIA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**ARHG DIA Antibody - Protein Information**

**Name** ARHGDI1

**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.

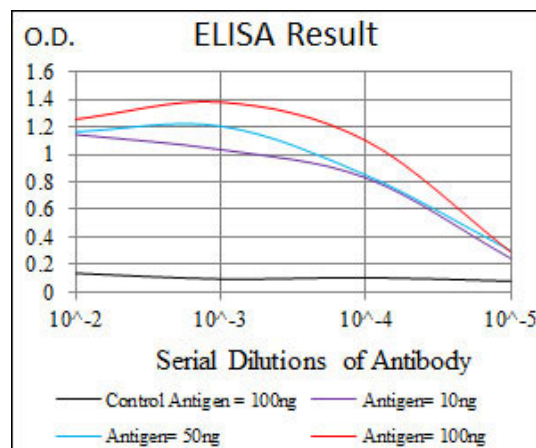
**Cellular Location**

Cytoplasm.

**ARHGDI1 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](#)



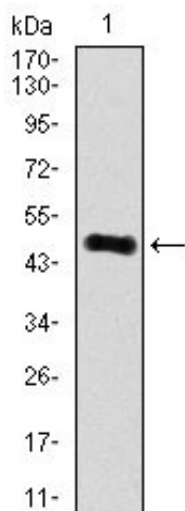


Figure 1: Western blot analysis using ARHGDI A mAb against human ARHGDI A recombinant protein. (Expected MW is 48.7 kDa)

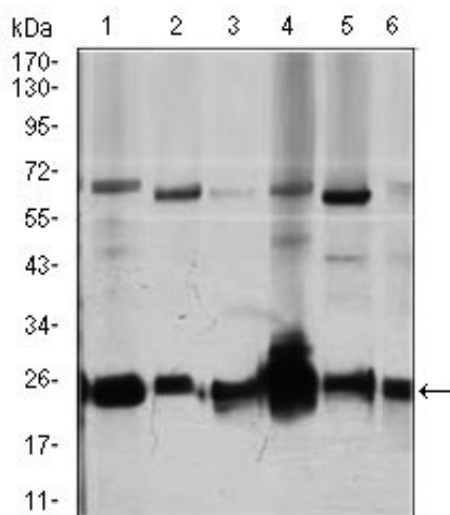


Figure 2: Western blot analysis using ARHGDI A mouse mAb against Jurkat (1), HeLa (2), NIH3T3 (3), C6 (4), K562 (5), and COS7 (6) cell lysate.

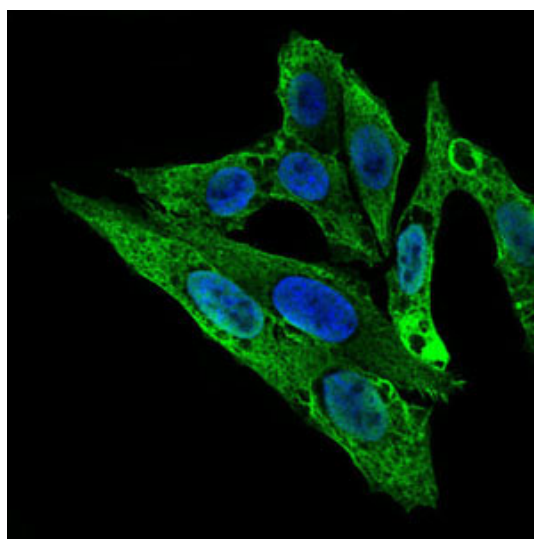


Figure 3: Immunofluorescence analysis of HepG2 cells using ARHGDI A mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

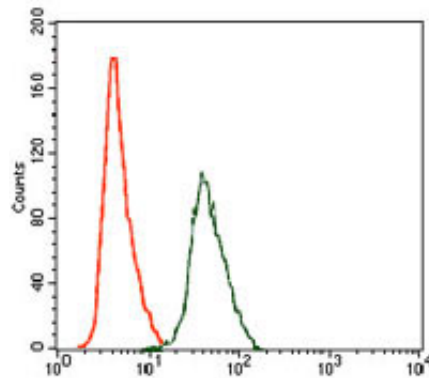


Figure 4: Flow cytometric analysis of HeLa cells using ARHGDI A mouse mAb (green) and negative control (red).

#### ARHGDI A Antibody - References

1. Nat Cell Biol. 2010 May;12(5):477-83.
2. Int J Oncol. 2010 Feb;36(2):379-86.