

**ARHGDIA Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2894a****Specification**

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**ARHGDIA Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P52565](#)**ARHGDIA Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 396**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2894a](/products/AP2894a) was selected from the N-term region of human ARHGDIA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ARHGDIA Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**ARHGDIA Antibody (N-term) Blocking Peptide - Images****ARHGDIA Antibody (N-term) Blocking Peptide - Background**

ARHGDIA 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 ARHGDIA

**ARHGDIA Antibody (N-term) Blocking Peptide - References**

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