

KD-Validated Anti-ARHGDIA Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI1930

Product Information

Application	WB, FC, ICC
Primary Accession	P52565
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB6235
Calculated MW	23207
Gene Name	ARHGDIA
Aliases	ARHGDIA; Rho GDP Dissociation Inhibitor Alpha; RHOGDI; GDIA1; Rho GDP Dissociation Inhibitor (GDI) Alpha; Rho GDP-Dissociation Inhibitor 1; GDP-Dissociation Inhibitor, Aplysia RAS-Related 1; Epididymis Secretory Sperm Binding Protein Li 47e; Rho-GDI Alpha; HEL-S-47e; Rho GDI 1; RHOGDI-1; NPHS8
Immunogen	Recombinant protein of human ARHGDIA

Additional Information

Gene ID	396
Other Names	Rho GDP-dissociation inhibitor 1, Rho GDI 1, Rho-GDI alpha, ARHGDIA, GDIA1

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.

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