Product Name: KO-Validated ARHGDIA Mouse Monoclonal Antibody
Catalog #: KVAb00164
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 23.2kDa

Antigen Information

Gene Name	ARHGDIA
Alternative Names	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
Gene ID	396.0
SwissProt ID	P52565
Immunogen	Recombinant protein of human ARHGDIA

Background

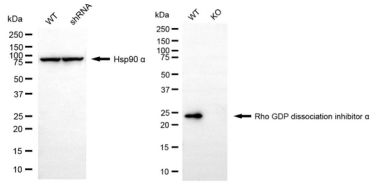
This gene encodes a protein that plays a key role in the regulation of signaling through Rho GTPases. The encoded protein

inhibits the disassociation of Rho family members from GDP (guanine diphosphate), thereby maintaining these factors in an inactive state. Activity of this protein is important in a variety of cellular processes, and expression of this gene may be altered in tumors. Mutations in this gene have been found in individuals with nephrotic syndrome, type 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

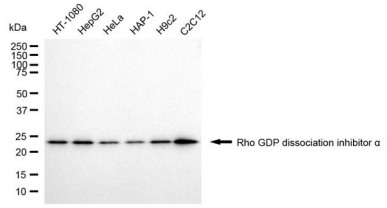
Research Area

Signal Transduction

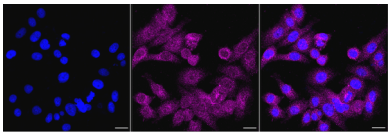
Image Data



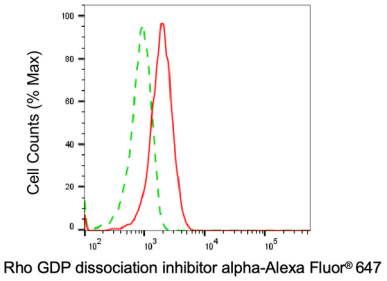
Western blotting analysis using Rho GDP dissociation inhibitor alpha antibody (KVAb00164). Rho GDP dissociation inhibitor alpha expression in wild type (WT) and Rho GDP dissociation inhibitor alpha (ARHGDIA) knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Rho GDP dissociation inhibitor alpha antibody (KVAb00164, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using Rho GDP dissociation inhibitor alpha antibody (KVAb00164). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Rho GDP dissociation inhibitor alpha antibody (KVAb00164, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Rho GDP dissociation inhibitor alpha antibody (KVAb00164, 1:1,000) . Nuclei were stained blue with DAPI; Rho GDP dissociation inhibitor alpha was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain： Medium. Scale bar, 20 µm.



Flow cytometric analysis of Rho GDP dissociation inhibitor alpha expression in HepG2 cells using Rho GDP dissociation inhibitor alpha antibody (KVAb00164, 1:2,000). Green, isotype control; red, Rho GDP dissociation inhibitor alpha.