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Product datasheet for CF501089

RhoGDI (ARHGDIA) Mouse Monoclonal Antibody [Clone ID: OTI1F2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F2
Applications:	FC, WB
Recommended Dilution:	WB 1:200~1000, FLOW 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ARHGDIA (NP_004300) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	23.0 kDa
Gene Name:	Rho GDP dissociation inhibitor alpha
Database Link:	NP_004300 Entrez Gene 192662 MouseEntrez Gene 360678 RatEntrez Gene 475924 DogEntrez Gene 714752 MonkeyEntrez Gene 396 Human P52565

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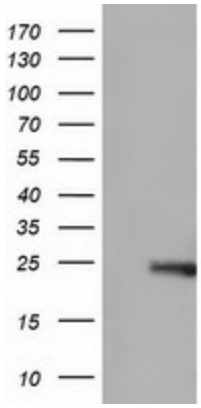
Background: Aplysia Ras-related homologs (ARHs), also called Rho genes, belong to the RAS gene superfamily encoding small guanine nucleotide exchange (GTP/GDP) factors. The ARH proteins may be kept in the inactive, GDP-bound state by interaction with GDP dissociation inhibitors, such as ARHGDIA (Leffers et al., 1993 [PubMed 8262133]). [supplied by OMIM]

Synonyms: GDIA1; HEL-S-47e; NPHS8; RHOGDI; RHOGDI-1

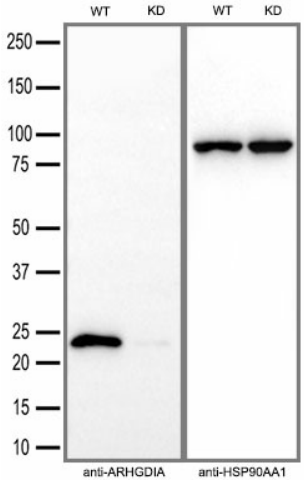
Protein Families: Druggable Genome

Protein Pathways: Neurotrophin signaling pathway

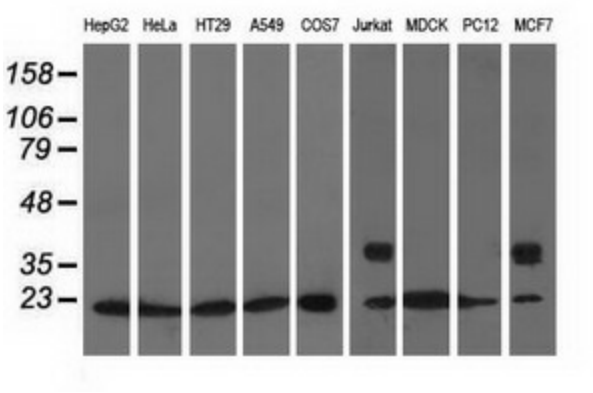
Product images:



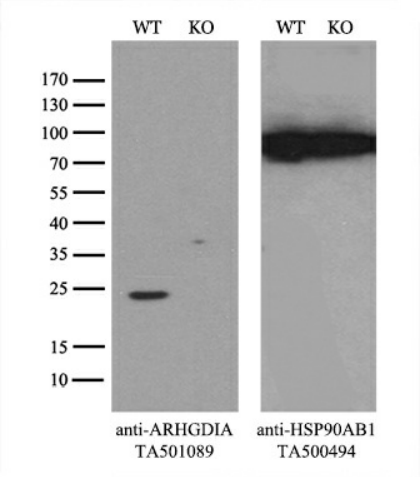
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ARHGDIA (Cat# [RC200902], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARHGDIA(Cat# [TA501089]). Positive lysates [LY401371] (100ug) and [LC401371] (20ug) can be purchased separately from OriGene.



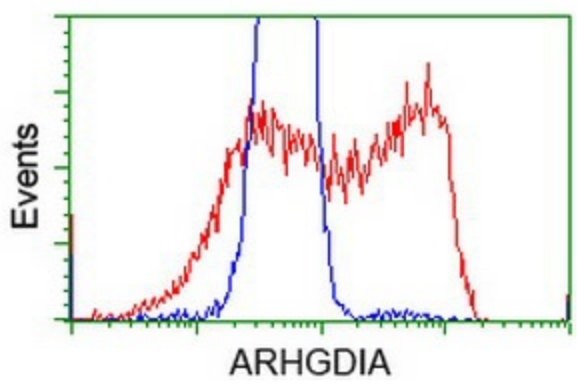
Equivalent amounts of cell lysates (30 ug per lane) of wild-type HAP-1 cells (WT) and ARHGDIA-Knockdown HAP-1 cells (KD) were separated by SDS-PAGE and immunoblotted with anti-ARHGDIA monoclonal antibody [TA501089] (1:2500). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



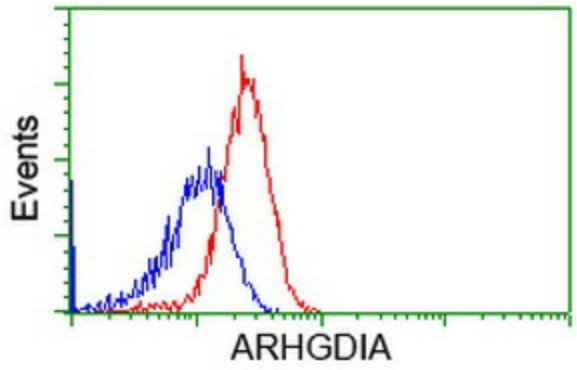
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ARHGDIA monoclonal antibody.



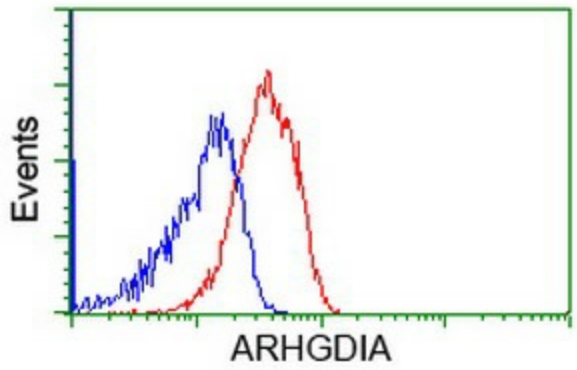
Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and ARHGDIA-Knockout 293T cells (KO, Cat# [LC811309]) were separated by SDS-PAGE and immunoblotted with anti-ARHGDIA monoclonal antibody [TA501089], (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.



HEK293T cells transfected with either [RC200902] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ARHGDIA antibody ([TA501089]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-ARHGDIA antibody ([TA501089]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-ARHGDIA antibody ([TA501089]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).