

ARHGDI<sup>A</sup> Antibody

Catalog No: #32232

Package Size: #32232-1 50ul #32232-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

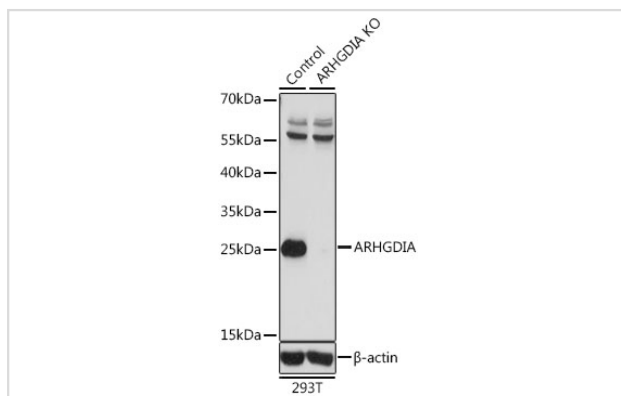
## Description

Product Name	ARHGDI <sup>A</sup> Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total ARHGDI <sup>A</sup> protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human ARHGDI <sup>A</sup> .
Target Name	ARHGDI <sup>A</sup>
Other Names	ARHGDI <sup>A</sup> ; GDIA1; MGC117248; RHOGDI; RHOGDI-1
Accession No.	Swiss-Prot:P52565NCBI Gene ID:396
Uniprot	P52565
GeneID	396;
SDS-PAGE MW	28KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

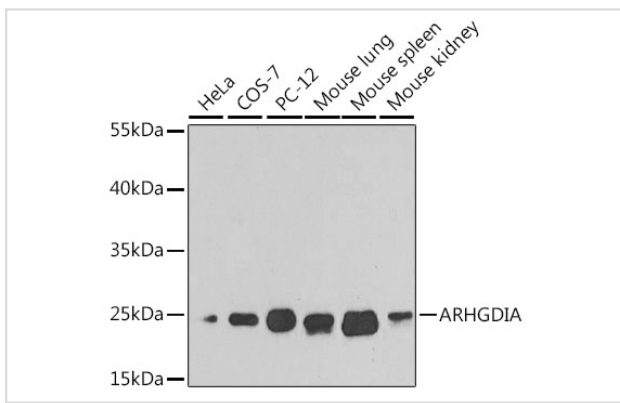
## Application Details

WB □ 1:500 - 1:2000 IF □ 1:50 - 1:200

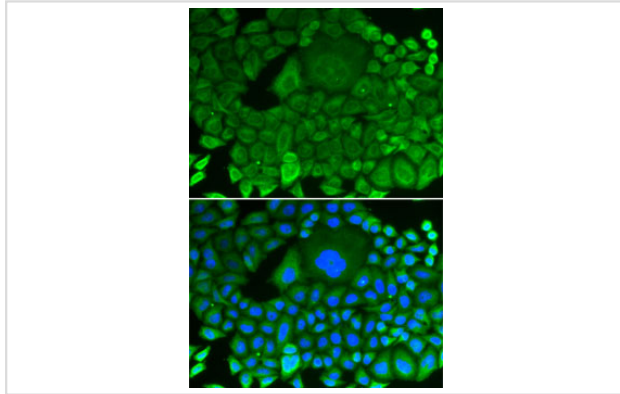
## Images



Western blot analysis of extracts from normal (control) and ARHGDI knockout (KO) 293T cells, using ARHGDI antibody at 1:1000 dilution.



Western blot analysis of extracts of various cell lines, using ARHGDI at 1:1000 dilution.



Immunofluorescence analysis of HeLa cells using ARHGDI . Blue: DAPI for nuclear staining.

## Background

Rho family small GTPases, including Rho, Rac and cdc42, act as molecular switches, regulating processes such as cell migration, adhesion, proliferation and differentiation. They are activated by guanine nucleotide exchange factors (GEFs), which catalyze the exchange of bound GDP for GTP, and inhibited by GTPase activating proteins (GAPs), which catalyze the hydrolysis of GTP to GDP. A third level of regulation is provided by the stoichiometric binding of Rho GDP dissociation inhibitor (RhoGDI). RhoGDI affects Rho activity by inhibiting nucleotide exchange and membrane association, regulating activity and localization (Reviewed in 1, 2). The inhibitory and shuttling functions of RhoGDI have been uncoupled using mutant forms of RhoGDI (3). Phosphorylation of GDIs and/or GTPases can modulate their affinity for each other and, therefore, GTPase mediated signaling. PAK1 phosphorylation of RhoGDI at serines 101 and 174 causes release and activation of Rac1, but not RhoA (4).

Note: This product is for in vitro research use only