

ARHGEF1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50069**Specification**

ARHGEF1 Antibody - Product Information

Application	WB
Primary Accession	Q92888
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102,99,104 KDa
Antigen Region	168-198

ARHGEF1 Antibody - Additional Information**Gene ID** 9138**Other Names**

Rho guanine nucleotide exchange factor 1, 115 kDa guanine nucleotide exchange factor, p115-RhoGEF, p115RhoGEF, Sub15, ARHGEF1

Dilution

WB~~ 1:1000

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

ARHGEF1 Antibody - Protein Information**Name** ARHGEF1**Function**

Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits (PubMed:9641915, PubMed:9641916). Acts as a GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase (PubMed:9641915, PubMed:9641916, PubMed:8810315, PubMed:30521495). Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain (PubMed:30521495).

[9641916](http://www.uniprot.org/citations/9641916)). This GEF activity is inhibited by binding to activated GNA12 (PubMed:[9641916](http://www.uniprot.org/citations/9641916)). Mediates angiotensin-2-induced RhoA activation (PubMed:[20098430](http://www.uniprot.org/citations/20098430)).

Cellular Location

Cytoplasm. Membrane. Note=Translocated to the membrane by activated GNA13 or LPA stimulation

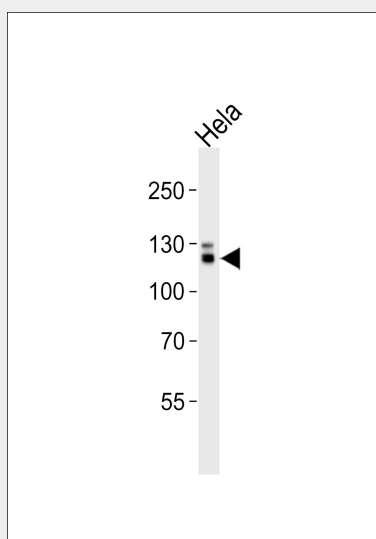
Tissue Location

Ubiquitously expressed.

ARHGEF1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ARHGEF1 Antibody - Images

Western blot analysis of lysate from HeLa cell line, using ARHGEF1 Antibody (C18385). C18385 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg.

ARHGEF1 Antibody - Background

Seems to play a role in the regulation of RhoA GTPase by guanine nucleotide-binding alpha-12 (GNA12) and alpha-13 (GNA13) subunits. Acts as GTPase-activating protein (GAP) for GNA12 and GNA13, and as guanine nucleotide exchange factor (GEF) for RhoA GTPase. Activated G alpha

13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain. This GEF activity is inhibited by binding to activated GNA12. Mediates angiotensin-2- induced RhoA activation.

ARHGEF1 Antibody - References

Hart M.J.,et al.J. Biol. Chem. 271:25452-25458(1996).
Aasheim H.-C.,et al.Oncogene 14:1747-1752(1997).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Kozasa T.,et al.Science 280:2109-2111(1998).
Hart M.J.,et al.Science 280:2112-2114(1998).