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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℃

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:30521495, PubMed:8810315, PubMed:9641915, PubMed:9641916). Activated G alpha 13/GNA13 stimulates the RhoGEF activity through interaction with the RGS-like domain (PubMed:<a

href="http://www.uniprot.org/citations/9641916" target="_blank">9641916). This GEF activity is inhibited by binding to activated GNA12 (PubMed:9641916). Mediates angiotensin-2-induced RhoA activation (PubMed:20098430). In lymphoid follicles, may trigger activation of GNA13 as part of S1PR2-dependent signaling pathway that leads to inhibition of germinal center (GC) B cell growth and migration outside the GC niche.

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

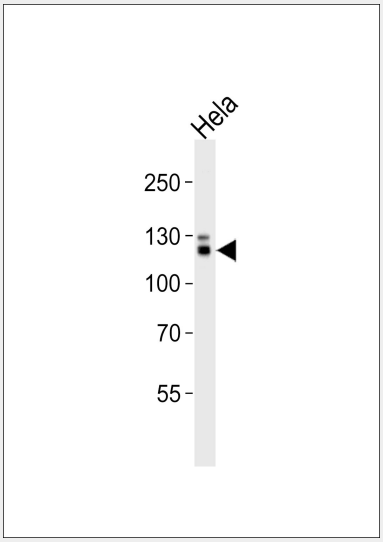
Tissue Location
Ubiquitously expressed.

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 Cytomety
- 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 35ug.

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).