

ARHGAP17 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50993

Specification

ARHGAP17 Antibody - Product Information

Application	WB, ICC, E
Primary Accession	<u>Q68EM7</u>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95 KDa

ARHGAP17 Antibody - Additional Information

Gene ID 55114

Other Names Rho GTPase-activating protein 17, Rho-type GTPase-activating protein 17, RhoGAP interacting with CIP4 homologs protein 1, RICH-1, ARHGAP17, RICH1

Format 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage Store at -20 °C.Stable for 12 months from date of receipt

ARHGAP17 Antibody - Protein Information

Name ARHGAP17

Synonyms RICH1

Function

Rho GTPase-activating protein involved in the maintenance of tight junction by regulating the activity of CDC42, thereby playing a central role in apical polarity of epithelial cells. Specifically acts as a GTPase activator for the CDC42 GTPase by converting it to an inactive GDP-bound state. The complex formed with AMOT acts by regulating the uptake of polarity proteins at tight junctions, possibly by deciding whether tight junction transmembrane proteins are recycled back to the plasma membrane or sent elsewhere. Participates in the Ca(2+)-dependent regulation of exocytosis, possibly by catalyzing GTPase activity of Rho family proteins and by inducing the reorganization of the cortical actin filaments. Acts as a GTPase activator in vitro for RAC1.

Cellular Location

Membrane; Peripheral membrane protein. Cytoplasm. Cell junction, tight junction. Note=Associates with membranes and concentrates at sites of cell-cell contact

Tissue Location



Ubiquitously expressed. Expressed at higher level in heart and placenta.

ARHGAP17 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
- <u>Cell Culture</u>

ARHGAP17 Antibody - Images

ARHGAP17 Antibody - Background

Rho GTPase-activating protein involved in the maintenance of tight junction by regulating the activity of CDC42, thereby playing a central role in apical polarity of epithelial cells. Specifically acts as a GTPase activator for the CDC42 GTPase by converting it to an inactive GDP-bound state. The complex formed with AMOT acts by regulating the uptake of polarity proteins at tight junctions, possibly by deciding whether tight junction transmembrane proteins are recycled back to the plasma membrane or sent elsewhere. Participates in the Ca(2+)-dependent regulation of exocytosis, possibly by catalyzing GTPase activity of Rho family proteins and by inducing the reorganization of the cortical actin filaments. Acts as a GTPase activator in vitro for RAC1.

ARHGAP17 Antibody - References

Richnau N.,et al.J. Biol. Chem. 276:35060-35070(2001). Ota T.,et al.Nat. Genet. 36:40-45(2004). Bechtel S.,et al.BMC Genomics 8:399-399(2007). Liu Y.Q.,et al.Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases. Reczek D.,et al.J. Cell Biol. 153:191-206(2001).