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Anti-ARHGAP17 Antibody

Catalog # AP50993

Product Information

Application	WB, IF/IC
Primary Accession	Q68EM7
Reactivity	Human, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95437

Additional Information

Gene ID	55114
Other Names	RICH1; Rho GTPase-activating protein 17; Rho-type GTPase-activating protein 17; RhoGAP interacting with CIP4 homologs protein 1; RICH-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ARHGAP17. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

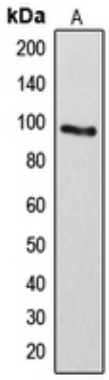
Name	ARHGAP17
Synonyms	RICH1
Function	Rho GTPase-activating protein involved in the maintenance of tight junction by regulating the activity of CDC42, thereby playing a central role in apical polarity of epithelial cells. Specifically acts as a GTPase activator for the CDC42 GTPase by converting it to 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.

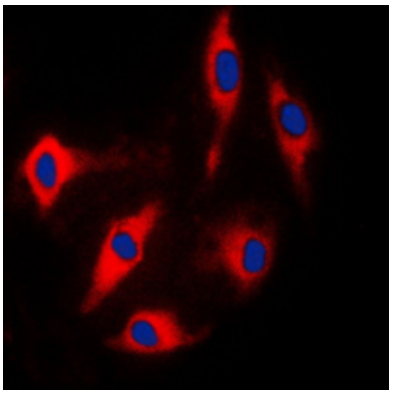
References

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Reczek D.,et al.J. Cell Biol. 153:191-206(2001).

Images



Western blot analysis of ARHGAP17 expression in Lovo (A) whole cell lysates. (Predicted band size: 95 kD; Observed band size: 95 kD)



Immunofluorescent analysis of ARHGAP17 staining in Lovo cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.