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ARHGAP17 Rabbit pAb

Catalog # AP98848

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q68EM7
Other Accession	Q68EM7
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95437
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ARHGAP17
Epitope Specificity	451-550/881
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 BAR domain. Contains 1 Rho-GAP domain.
SUBUNIT	Component of a complex whose core is composed of ARHGAP17, AMOT, MPP5/PALS1, INADL/PATJ and PARD3/PAR3. Interacts with SLC9A3R1, FNBP1, TRIP10, CAPZA (CAPZA1, CAPZA2 or CAPZA3), CAPZB, CD2AP and SH3KBP1/CIN85.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ARHGAP17 is a 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. It 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. RHGAP17 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.

Additional Information

Gene ID	55114
Other Names	RHG17_HUMAN; ARHGAP17; Rho-type GTPase-activating protein 17; RhoGAP interacting with CIP4 homologs protein 1 (RICH-1); RICH1; RHG17_MOUSE; Neuron-associated developmentally-regulated protein (Nadrin); RHG17_RAT; Rho GTPase activating protein 17
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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