Product Name: ARHGAP17 Rabbit Polyclonal Antibody
Catalog #: APRab07122

Summary

Production Name	ARHGAP17 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ARHGAP17
Alternative Names	ARHGAP17; RICH1; MSTP066; MSTP110; Rho GTPase-activating protein 17; Rho-type GTPase-activating protein 17; RhoGAP interacting with CIP4 homologs protein 1; RICH-1
Gene ID	55114.0
SwissProt ID	Q68EM7.The antiserum was produced against synthesized peptide derived from human RHG17. AA range:331-380

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:40000.
Molecular Weight	100kD

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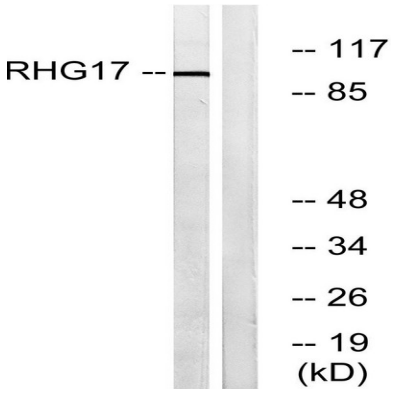
Background

RICH1 is a GTPase-activating protein (GAP). GAPs stimulate the intrinsic GTP hydrolysis of small G proteins, such as RHOA (MIM 165390), RAC1 (MIM 602048), and CDC42 (MIM 116952).[supplied by OMIM, Apr 2004],domain:The BAR domain mediates the interaction with the coiled coil domain of AMOT, leading to its recruitment to tight junctions.,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 activitor in vitro for RAC1.,similarity:Contains 1 BAR domain.,similarity:Contains 1 Rho-GAP domain.,subcellular location:Associates with membranes and concentrates at sites of cell-cell contact.,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.,tissue specificity:Ubiquitously expressed. Expressed at higher level in heart and placenta.,

Research Area

Image Data



Western blot analysis of lysates from LOVO cells, using RHG17 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.