SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ARHGAP17 antibody

Catalog Number: SL2304R

FOR RESEARCH USE ONLY

[DATASHEET]

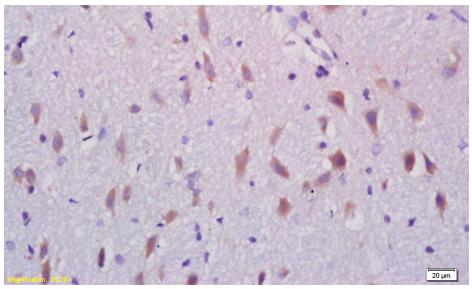
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ARHGAP17
Immunogen:	KLH conjugated synthetic peptide derived from human ARHGAP17: 451-550/881
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Fruit Fly)
Predicted MW.:	81kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	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. **Function:** Rho GTPase-activating protein involved in the maintenance of tight

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	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. **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. **Subcellular Location:** Membrane; Peripheral membrane protein. Cytoplasm. Cell junction, tight junction. Note=Associates with membranes and concentrates at sites of cell-cell contact. **Tissue Specificity:** Ubiquitously expressed. Expressed at higher level in heart and placenta. **Similarity:** Contains 1 BAR domain. Contains 1 Rho-GAP domain. **Database links:** **Entrez Gene:** 55114 Human **Entrez Gene:** 70497 Mouse **Entrez Gene:** 63994 Rat Omim: 608293 Human **SwissProt:** Q68EM7 Human **SwissProt:** Q3UIA2 Mouse **SwissProt:** Q99N37 Rat

[VALIDATION IMAGES]



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Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-Nadrin/ARHGAP17 Polyclonal Antibody, Unconjugated(SL2304R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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