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ARHGAP17 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10759a

Product Information

Application	WB, FC, IHC-P, E
Primary Accession	Q68EM7
Other Accession	Q99N37, Q3UIA2, NP_001006635.1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24368
Calculated MW	95437
Antigen Region	41-70

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
Target/Specificity	This ARHGAP17 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 41-70 amino acids from the N-terminal region of human ARHGAP17.
Dilution	WB~~1:1000 FC~~1:10~50 IHC-P~~1:100 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ARHGAP17 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

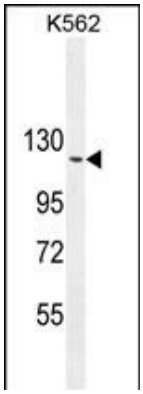
Background

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].

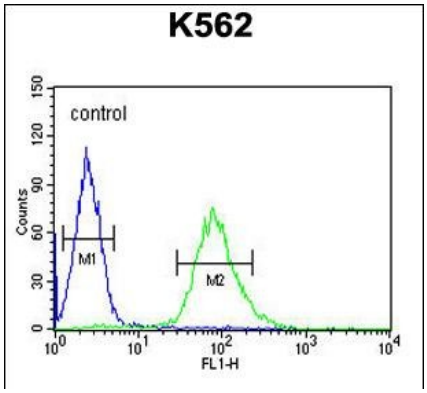
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Wells, C.D., et al. Cell 125(3):535-548(2006)
Richnau, N., et al. J. Biol. Chem. 276(37):35060-35070(2001)
Reczek, D., et al. J. Cell Biol. 153(1):191-206(2001)

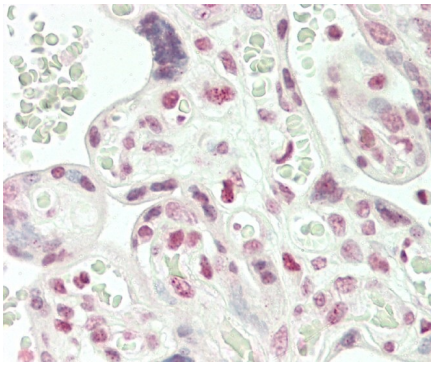
Images



ARHGAP17 Antibody (N-term) (Cat. #AP10759a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the ARHGAP17 antibody detected the ARHGAP17 protein (arrow).



ARHGAP17 Antibody (N-term) (Cat. #AP10759a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Formalin-fixed and paraffin-embedded H.placenta tissue reacted with ARHGAP17 Antibody (N-term) (Cat#AP10759a).

Citations

- ARHGAP17 suppresses tumor progression and up-regulates P21 and P27 expression via inhibiting PI3K/AKT signaling pathway in cervical cancer.