

Rab17 Rabbit pAb

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Catalog # AP54433

Product Information

Application	WB
Primary Accession	Q9H0T7
Reactivity	Human
Predicted	Rat, Dog, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23491
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Rab17
Epitope Specificity	101-200/212
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Recycling endosome membrane; Lipid-anchor; Cytoplasmic side (By similarity). Cell projection, dendrite (By similarity). Note=May also localize at the basolateral and apical plasma membrane. In neurons, localizes to the cell body and dendritic shaft and spine (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Rab17 belongs to the Rab family of small Ras-like GTPases. It is specifically expressed in epithelial cells and is upregulated during cell polarization. Immunofluorescence staining studies indicate that Rab17 is associated with the perinuclear recycling endosome in nonpolarized epithelial cells and with the apical recycling endosome in polarized epithelial cells. The function of Rab17 remains unclear. Reports of Rab17 colocalization with internalized IgA in the apical endosome suggest that it may regulate receptor-mediated transcytosis. Rab17 has also been shown to regulate melanocytic filopodia formation and melanosome trafficking. siRNA knockdown of Rab17 in melanoma cells induces melanosome accumulation in the cell periphery.

Additional Information

Gene ID	64284
Other Names	Ras-related protein Rab-17, 3.6.5.2, RAB17 (HGNC:16523)
Dilution	WB=1:500-2000
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.

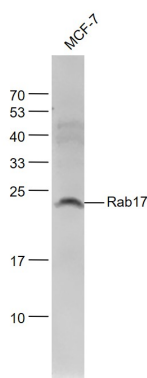
Protein Information

Name	RAB17 (HGNC:16523)
Function	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). RAB17 is involved in transcytosis, the directed movement of endocytosed material through the cell and its exocytosis from the plasma membrane at the opposite side. Mainly observed in epithelial cells, transcytosis mediates for instance, the transcellular transport of immunoglobulins from the basolateral surface to the apical surface. Most probably controls membrane trafficking through apical recycling endosomes in a post-endocytic step of transcytosis. Required for melanosome transport and release from melanocytes, it also regulates dendrite and dendritic spine development (By similarity). May also play a role in cell migration (PubMed: 22328529).
Cellular Location	Recycling endosome membrane {ECO:0000250 UniProtKB:P35292}; Lipid-anchor; Cytoplasmic side. Melanosome {ECO:0000250 UniProtKB:P35292}. Cell projection, dendrite {ECO:0000250 UniProtKB:P35292}. Note=May also localize at the basolateral and apical plasma membrane. In neurons, localizes to the cell body and dendritic shaft and spine {ECO:0000250 UniProtKB:P35292}
Tissue Location	Expressed in melanocytes (at protein level).

Background

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Images



Sample:
MCF-7(Human) Cell Lysate at 30 ug
Primary: Anti-Rab17 (AP54433) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 23 kD
Observed band size: 23 kD

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