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RAB41 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16499b

Product Information

Application	WB, E
Primary Accession	Q5JT25
Other Accession	NP_001027898.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35898
Calculated MW	25038
Antigen Region	137-165

Additional Information

Gene ID	347517
Other Names	Ras-related protein Rab-41, RAB41
Target/Specificity	This RAB41 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 137-165 amino acids from the C-terminal region of human RAB41.
Dilution	WB~~1:1000 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	RAB41 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB41 (HGNC:18293)
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 sets of

	downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (PubMed:23936529). RAB41 is required for normal Golgi ribbon organization and ER-to-Golgi trafficking (PubMed:23936529).
Cellular Location	Cytoplasm. Note=punctate localization concentrated in ruffled regions at the cell periphery
Tissue Location	Widely expressed in brain, testis, lung, heart, ovary, colon, kidney, uterus and spleen but not in liver

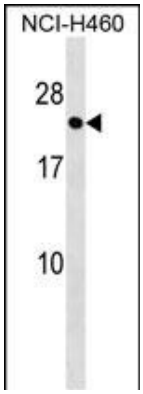
Background

This gene encodes a small GTP-binding protein that belongs to the largest family within the Ras superfamily. These proteins function as regulators of membrane trafficking. They cycle between inactive GDP-bound and activated GTP-bound states, which is controlled by GTP hydrolysis-activating proteins (GAPs). This family member can be activated by the GAP protein RN-Tre, and it is localized to the Golgi complex.

References

Haas, A.K., et al. Nat. Cell Biol. 7(9):887-893(2005)
Pereira-Leal, J.B., et al. J. Mol. Biol. 313(4):889-901(2001)

Images



RAB41 Antibody (C-term) (Cat. #AP16499b) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the RAB41 antibody detected the RAB41 protein (arrow).