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RAB28 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16985c

Product Information

Application	WB, FC, IHC-P-Leica, E
Primary Accession	P51157
Other Accession	NP_004240.2, NP_001017979.1
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36693
Calculated MW	24841
Antigen Region	119-147

Additional Information

Gene ID	9364
Other Names	Ras-related protein Rab-28, RAB28
Target/Specificity	This RAB28 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 119-147 amino acids from the Central region of human RAB28.
Dilution	WB~~1:1000 FC~~1:25 IHC-P-Leica~~1:500 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	RAB28 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB28 (HGNC:9768)
Function	The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with

	membranes (PubMed:8647132). 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:8647132). RAB28 is required for shedding and phagocytosis of cone cell outer segments (OS) discs in the retina (By similarity). Also participates in nuclear factor kappa-B p65/RELA nuclear transport in endothelial cells (By similarity).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:P51158}. Cytoplasm {ECO:0000250|UniProtKB:P51158}. Nucleus {ECO:0000250|UniProtKB:P51158} Note=Expressed in the basal body and ciliary rootlet of the photoreceptor cells (By similarity). Localized in the cytoplasm and the nucleus of vascular endothelial cells (By similarity) {ECO:0000250|UniProtKB:P51158}
Tissue Location	[Isoform S]: Isoform S is detected in most tissues investigated: cortex, liver, kidney, skeletal muscle, adipose tissue, testis, urothelium, lung, bone marrow and retinal pigment epithelium (RPE). [Isoform 3]: Isoform 3 is highly expressed in heart, lung, bone marrow, retina, brain, and RPE

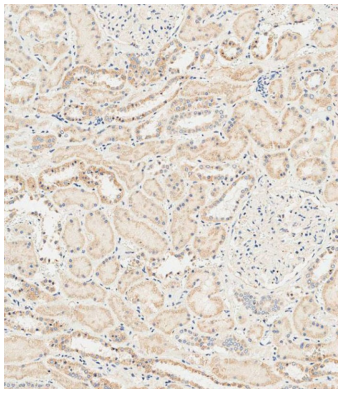
Background

This gene encodes a member of the Rab subfamily of Ras-related small GTPases. The encoded protein may be involved in regulating intracellular trafficking. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 9 and X.

References

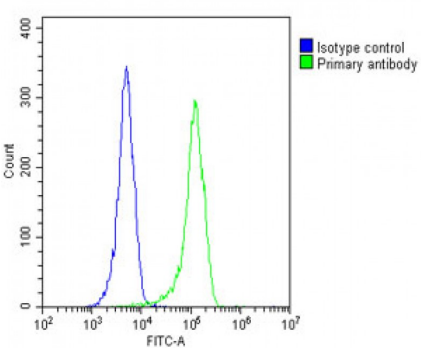
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Lee, S.H., et al. FEBS Lett. 582(29):4107-4111(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Stenmark, H., et al. Genome Biol. 2 (5), REVIEWS3007 (2001) :
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Images

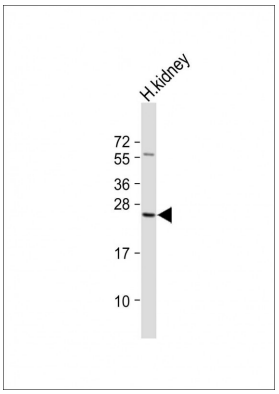


Immunohistochemical analysis of paraffin-embedded human kidney tissue using AP16985c performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

Overlay histogram showing A2058 cells stained with AP16985c(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody



(1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Anti-RAB28 Antibody (Center) at 1:1000 dilution + Human kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 25 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.