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RAB5C Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8520b

Product Information

Application	WB, FC, E
Primary Accession	P51148
Other Accession	Q5R7L7
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b,k
Clone Names	1616CT314.65.31
Calculated MW	23483

Additional Information

Gene ID	5878
Other Names	Ras-related protein Rab-5C, L1880, RAB5L, RAB5C, RABL
Target/Specificity	This RAB5C antibody is generated from a mouse immunized with a recombinant protein of human RAB5C.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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	RAB5C Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB5C (HGNC:9785)
Synonyms	RABL
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:16086013, PubMed:17562788). Involved in early endocytic trafficking (PubMed:16086013, PubMed:17562788). Required for EEA1 recruitment to early endosomes (PubMed:16086013, PubMed:17562788). Required for EGF and transferrin endocytosis and trafficking through early endosomes (PubMed:16086013, PubMed:17562788).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P20339}; Lipid-anchor {ECO:0000250|UniProtKB:P20339}; Cytoplasmic side {ECO:0000250|UniProtKB:P20339}. Early endosome membrane {ECO:0000250|UniProtKB:P20339}; Lipid-anchor {ECO:0000250|UniProtKB:P20339}. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

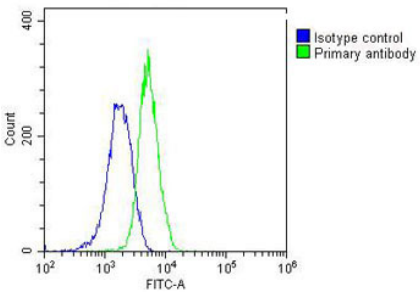
Background

Protein transport. Probably involved in vesicular traffic (By similarity).

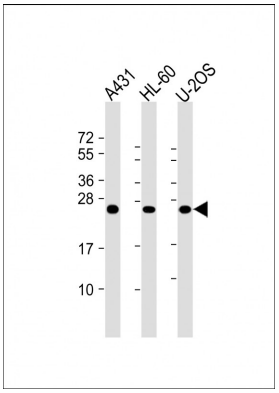
References

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Albertsen H.M.,et al.Nat. Genet. 7:472-479(1994).
Clemens D.L.,et al.Infect. Immun. 68:2671-2684(2000).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



Overlay histogram showing U-2OS cells stained with AM8520b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8520b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OJ192088) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG2b (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



All lanes : Anti-RAB5C Antibody at 1:2000 dilution Lane 1: A431 whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: U-2OS whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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