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RAB5C Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13450b

Product Information

Application	WB, IHC-P, E
Primary Accession	P51148
Other Accession	Q58DS9, NP_004574.2, NP_958842.1
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32778
Calculated MW	23483
Antigen Region	178-207

Additional Information

Gene ID	5878
Other Names	Ras-related protein Rab-5C, L1880, RAB5L, RAB5C, RABL
Target/Specificity	This RAB5C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 178-207 amino acids from the C-terminal region of human RAB5C.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	RAB5C Antibody (C-term) 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.

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

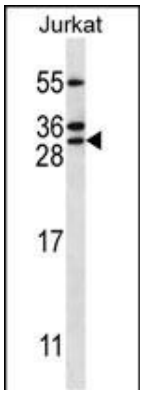
Background

Members of the Rab protein family are small GTPases of the Ras superfamily that are thought to ensure fidelity in the process of docking and/or fusion of vesicles with their correct acceptor compartment (Han et al., 1996 [PubMed 8646882]).

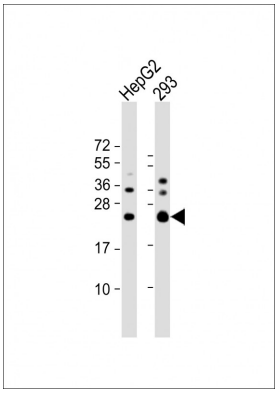
References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Chi, A., et al. J. Proteome Res. 5(11):3135-3144(2006)
Merithew, E., et al. J. Biol. Chem. 278(10):8494-8500(2003)
Clemens, D.L., et al. Infect. Immun. 68(5):2671-2684(2000)
Bucci, C., et al. Biochem. Biophys. Res. Commun. 258(3):657-662(1999)

Images

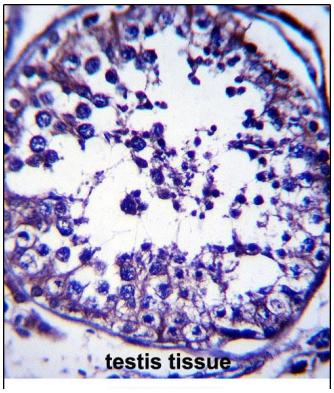


RAB5C Antibody (C-term) (Cat. #AP13450b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the RAB5C antibody detected the RAB5C protein (arrow).



All lanes : Anti-RAB5C Antibody (C-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

RAB5C Antibody (C-term) (Cat. #AP13450b)immunohistochemistry analysis in formalin



fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RAB5C Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.