10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RAB27B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12742c

Product Information

Application	WB, IHC-P, E
Primary Accession	O00194
Other Accession	Q99P58, NP_004154.2
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32417
Calculated MW	24608
Antigen Region	121-150

Additional Information

Gene ID	5874
Other Names	Ras-related protein Rab-27B, C25KG, RAB27B
Target/Specificity	This RAB27B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 121-150 amino acids from the Central region of human RAB27B.
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	RAB27B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB27B (HGNC:9767)
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:21775604, PubMed:30771381). RAB27B regulates homeostasis of late endocytic pathway, including endosomal positioning, maturation and secretion (PubMed:30771381). Plays a role in NTRK2/TRKB axonal anterograde transport by facilitating the association of NTRK2/TRKB with KLC1 (PubMed:21775604). May be involved in targeting uroplakins to urothelial apical membranes (By similarity).

Cellular Location Membrane; Lipid-anchor. Late endosome

Tissue Location Expressed primarily in testis.

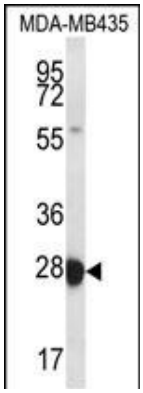
Background

Members of the Rab protein family, including RAB27B, are prenylated, membrane-bound proteins involved in vesicular fusion and trafficking (Chen et al., 1997 [PubMed 9066979]).[supplied by OMIM].

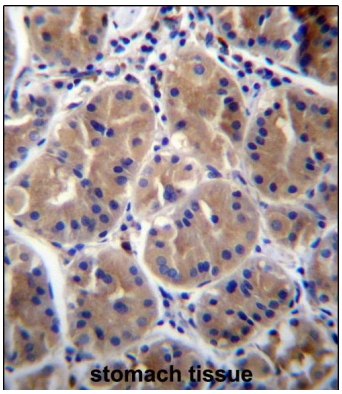
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Hendrix, A., et al. J. Natl. Cancer Inst. 102(12):866-880(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Hayasaka, S., et al. Asian J. Androl. 10(4):561-568(2008)
Shirakawa, R., et al. J. Biol. Chem. 279(11):10730-10737(2004)

Images



RAB27B Antibody (Center) (Cat. #AP12742c) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the RAB27B antibody detected the RAB27B protein (arrow).



RAB27B Antibody (Center) (Cat. #AP12742c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RAB27B Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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