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

RAB3D Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13216b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O95716
Other Accession	NP_004274.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32995
Calculated MW	24267
Antigen Region	185-212

Additional Information

Gene ID	9545
Other Names	Ras-related protein Rab-3D, RAB3D, GOV, RAB16
Target/Specificity	This RAB3D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 185-212 amino acids from the C-terminal region of human RAB3D.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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	RAB3D Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB3D (HGNC:9779)
Synonyms	GOV, RAB16
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 (By similarity). RAB3D may be involved in the insulin-induced exocytosis of GLUT4-containing vesicles in adipocytes (By similarity).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side
Tissue Location	Highly expressed in granulocytes of peripheral blood (PubMed:10023084). Constitutively expressed at low levels in all hematopoietic cell lines investigated (PubMed:10023084)

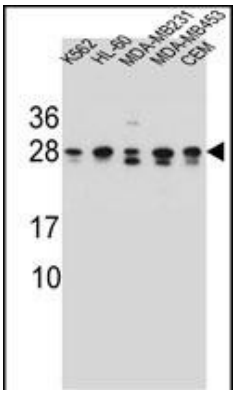
Background

RAB3D is a protein transport. Probably involved in regulated exocytosis (By similarity).

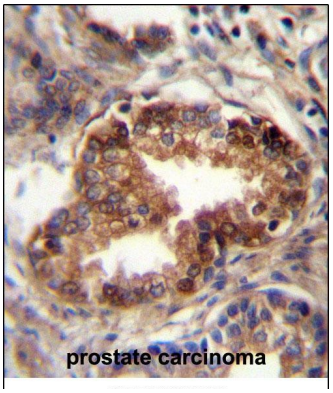
References

Tian, X., et al. Mol. Cell. Biol. 30(5):1269-1284(2010)
Knop, M., et al. EMBO J. 23(15):2982-2992(2004)
Matsumoto, M., et al. Proc. Natl. Acad. Sci. U.S.A. 101(22):8313-8318(2004)
Nguyen, D., et al. J. Cell. Physiol. 197(3):400-408(2003)
Fukuda, M. J. Biol. Chem. 278(17):15373-15380(2003)

Images

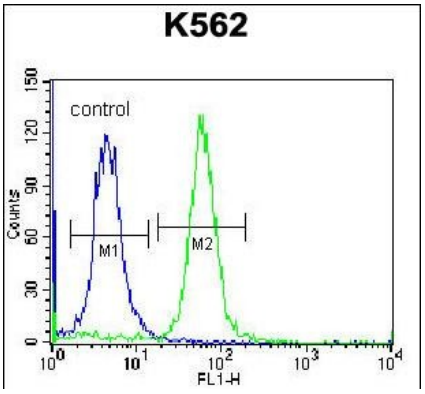


RAB3D Antibody (C-term) (Cat. #AP13216b) western blot analysis in K562,HL-60,MDA-MB231,MDA-MB453,CEM cell line lysates (35ug/lane).This demonstrates the RAB3D antibody detected the RAB3D protein (arrow).



RAB3D Antibody (C-term) (Cat. #AP13216b)immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RAB3D Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

RAB3D Antibody (C-term) (Cat. #AP13216b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left



histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.