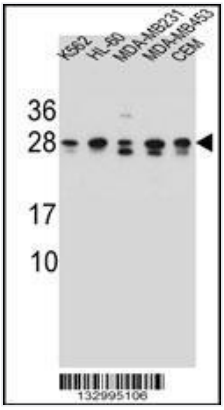
RAB3D Antibody – Rabbit Polyclonal

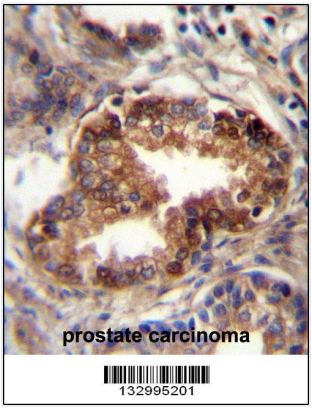
PRODUCT OVERVIEW

Product Name	RAB3D, Polyclonal Antibody
Full Product Name	RAB3D, CT (RAB3D, GOV, RAB16, Ras-related protein Rab-3D) (APC)
Product Gene Name	anti-RAB3D antibody
Product Synonym Names	RAB3D; GOV; RAB16; Ras-related protein Rab-3D
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	24,267 Da
OMIM	604350
3D Structure	ModBase 3D Structure for O95716
Immunogen	RAB3D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-212 amino acids from the C-terminal region of human RAB3D.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-RAB3D antibody	Antibodies; GTPase; Rab; Ras; Rho Proteins
Applications Tested/Suitable for anti-RAB3D antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-RAB3D antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-RAB3D antibody	RAB3D is a protein transport. Probably involved in regulated exocytosis (By similarity).
Product References and Citations for anti-RAB3D antibody	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).

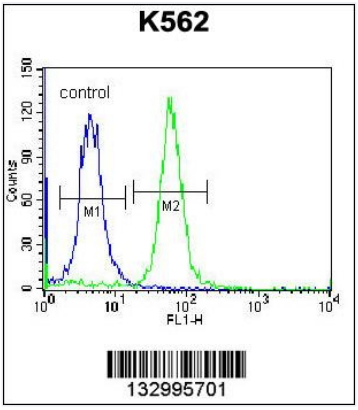
Other Notes	Small volumes of anti-RAB3D antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RAB3D purchase	MBS6339779 is an antibody targeting RAB3D. Also known as RAB3D, CT (RAB3D, GOV, RAB16, Ras-related protein Rab-3D) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RAB3D antibody
RAB3D Antibody (C-term) 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).



Immunohistochemistry (IHC) of anti-RAB3D antibody
RAB3D Antibody (C-term) 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.



Flow Cytometry (FC/FACS) of anti-RAB3D antibody
RAB3D Antibody (C-term) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB3D. It may not necessarily be applicable to this product.

NCBI GI #	4759000
NCBI GeneID	9545
NCBI Accession #	NP_004274.1
UniProt Primary Accession #	O95716
UniProt Related Accession #	O95716
GenBank Nucleotide #	NM_004283.3
NCBI Official Full Name	ras-related protein Rab-3D
NCBI Official Synonym Full Names	RAB3D, member RAS oncogene family

NCBI Official Symbol	RAB3D
NCBI Official Synonym Symbols	GOV; D2-2; RAB16; RAD3D
UniProt Protein Name	Ras-related protein Rab-3D
Protein Family	GTP-binding protein
UniProt Gene Name	RAB3D
UniProt Synonym Gene Names	GOV; RAB16
UniProt Entry Name	RAB3D_HUMAN
NCBI Protein Information	ras-related protein Rab-3D; Rab3D upregulated with myeloid differentiation; glioblastoma overexpressed
UniProt Comments for RAB3D	RAB3D: Protein transport. Probably involved in regulated exocytosis. Belongs to the small GTPase superfamily. Rab family. Protein type: G protein, monomeric; G protein, monomeric, Rab Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: synaptic vesicle; transport vesicle; mitochondrion; secretory granule membrane; plasma membrane; endosome Molecular Function: GTPase activity; GTPase binding; GDP binding; GTP binding; myosin V binding Biological Process: regulation of exocytosis; intracellular protein transport; synaptic vesicle exocytosis; protein secretion; peptidyl-cysteine methylation; Rab protein signal transduction; vesicle docking during exocytosis
Research Articles on RAB3D	**1.** The presence of Rab3D(N135I) decreases the restriction of maturing secretory granules (SGs) to the F-actin-rich cell cortex, blocks the removal of the endoprotease furin from SGs and impedes the processing of the luminal SG protein secretogranin II.
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