RAB27B Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RAB27B, Blocking Peptide
Full Product Name	RAB27B Blocking Peptide
Product Gene Name	RAB27B blocking peptide
Product Synonym Names	C25KG; Rab27b; RAB27B member RAS oncogene family; RAS associated protein RAB27B; Ras related protein Rab 27b; Ras related protein Rab27b; Ras-related protein Rab-27B; RB27B_HUMAN; Small GTP binding protein rab27b
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RAB27B peptide (MBS9620765) is used for blocking the activity of RAB27B antibody (MBS9603288)
Molecular Weight	24,608 Da
OMIM	603869
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RAB27B blocking peptide	Blocking/Control
Related Product Information for RAB27B blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of RAB27B blocking peptide 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 RAB27B purchase	MBS9620765 is a blocking peptide targeting RAB27B.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB27B. It may not necessarily be applicable to this product.

NCBI GI #	5729997
NCBI GeneID	5874
NCBI Accession #	NP_004154.2
UniProt Primary Accession #	O00194

UniProt Secondary Accession #	Q9BZB6; B2RAB0
UniProt Related Accession #	O00194
GenBank Nucleotide #	NM_004163.4
NCBI Official Full Name	ras-related protein Rab-27B
NCBI Official Synonym Full Names	RAB27B, member RAS oncogene family
NCBI Official Symbol	RAB27B
NCBI Official Synonym Symbols	C25KG
UniProt Protein Name	Ras-related protein Rab-27B
UniProt Synonym Protein Names	C25KG
Protein Family	Ras-related protein
UniProt Gene Name	RAB27B
UniProt Entry Name	RB27B_HUMAN
NCBI Protein Information	ras-related protein Rab-27B
NCBI Summary for RAB27B	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, Nov 2010]
UniProt Comments for RAB27B	RAB27B: May be involved in targeting uroplakins to urothelial apical membranes. Belongs to the small GTPase superfamily. Rab family. Protein type: G protein, monomeric; G protein, monomeric, Rab Chromosomal Location of Human Ortholog: 18q21.2 Cellular Component: trans-Golgi network transport vesicle; zymogen granule membrane; Golgi stack; apical plasma membrane; melanosome; secretory granule Molecular Function: GTPase activity; protein domain specific binding; protein binding; GDP binding; GTP binding; myosin V binding Biological Process: intracellular protein transport; metabolic process; protein secretion; Rab protein signal transduction; melanosome transport; vesicle docking during exocytosis; positive regulation of exocytosis
Research Articles on RAB27B	**1.** Silencing of the exocytotic RAB family members RAB27A or RAB27B halted miR23b and miR921 secretion and reduced cellular invasion.
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