Rab25 Blocking Peptide

PRODUCT OVERVIEW

Product Name	Rab25, Blocking Peptide
Full Product Name	Rab25 Blocking Peptide
Product Gene Name	RAB25 blocking peptide
Product Synonym Names	CATX 8; CATX-8; CATX8; RAB11C; RAB25; RAB25 member RAS oncogene family; RAB25_HUMAN; Ras related protein Rab 25; Ras-related protein Rab-25; RP11-336K24.10-001
Antibody/Peptide Pairs	RAB25 peptide (MBS9633287) is used for blocking the activity of RAB25 antibody (MBS9630904)
Molecular Weight	23,496 Da
OMIM	612942
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.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RAB25 blocking peptide	MBS9633287 is a blocking peptide targeting RAB25.
Other Notes	Small volumes of RAB25 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB25. It may not necessarily be applicable to this product.

NCBI GI #	119573388
NCBI GeneID	57111
NCBI Accession #	EAW53003.1
UniProt Primary Accession #	P57735
UniProt Secondary Accession #	Q5VYA2; Q8NG24; Q96GB1; Q9BT12
UniProt Related Accession #	P57735
NCBI Official Full Name	RAB25, member RAS oncogene family
NCBI Official Synonym Full Names	RAB25, member RAS oncogene family
NCBI Official Symbol	RAB25
NCBI Official Synonym Symbols	CATX-8; RAB11C
UniProt Protein Name	Ras-related protein Rab-25
UniProt Synonym Protein Names	CATX-8
Protein Family	Dehydrin
UniProt Gene Name	RAB25
UniProt Synonym Gene Names	CATX8

UniProt Entry Name	RAB25_HUMAN
NCBI Protein Information	ras-related protein Rab-25
NCBI Summary for RAB25	The protein encoded by this gene is a member of the RAS superfamily of small GTPases. The encoded protein is involved in membrane trafficking and cell survival. This gene has been found to be a tumor suppressor and an oncogene, depending on the context. Two variants, one protein-coding and the other not, have been found for this gene. [provided by RefSeq, Nov 2015]
UniProt Comments for RAB25	Function: Involved in the regulation of cell survival. Promotes invasive migration of cells in which it functions to localize and maintain integrin alpha-V/beta-1 at the tips of extending pseudopodia. Increases the rates of ovarian and breast cancers progression and aggressiveness by modulating cellular processes such as proliferation, survival and migration of epithelial tumor cells. May selectively regulate the apical recycling pathway. Together with MYO5B regulates transcytosis By similarity. Ref.7 Ref.8 Subunit structure: Interacts with RAB11FIP1, RAB11FIP2, RAB11FIP3 and RAB11FIP4. Interacts (via the hypervariable C-terminal region) with ITGB1 (via the cytoplasmic region); the interaction is GTP-dependent. Interacts with ITGAV. Associates with the integrin alpha-V/beta-1 heterodimer. Ref.6 Ref.8 Subcellular location: Cell membrane; Lipid-anchor; Cytoplasmic side Potential. Cell projection › pseudopodium membrane. Cytoplasmic vesicle. Note: Colocalizes with integrin alpha-V/beta-1 in vesicles at the pseudopodial tips. Tissue specificity: Expressed in ovarian epithelium (NOE) and breast tissue. Expressed in ovarian cancer; expression is increased relative to NOE cells. Expression in ovarian cancer is stage dependent, with stage III and stage IV showing higher levels than early stage cancers. Expressed in breast cancer; expression is increased relative to normal breast tissue. Ref.7 Sequence similarities: Belongs to the small GTPase superfamily. Rab family. Sequence caution: The sequence AAF98238.1 differs from that shown. Reason: Frameshift at position 196. The sequence AAM69362.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally shortened.
Research Articles on RAB25	**1.** Rab25 was upregulated in hepatocellular carcinoma tissues and cells compared with normal liver tissues and cell lines. Rab25 overexpression correlated with advanced tumor stage and nodal metastasis.Rab25 depletion blocked cell growth rate, inhibited colony formation, downregulated AKT phosphorylation, inhibited the Wnt signaling pathway and its target genes, and negatively regulated the invading ability of HCC cells.
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