# Ras-Related Protein Rab-39b (RAB39B) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Ras-related protein Rab-39B (RAB39B), Recombinant Protein |
| **Full Product Name** | Recombinant Human Ras-related protein Rab-39B (RAB39B) |
| **Product Gene Name** | RAB39B recombinant protein |
| **Product Synonym Gene Name** | RAB39B |
| **Sequence** | MEAIWLYQFR LIVIGDSTVG KSCLIRRFTE GRFAQVSDPT VGVDFFSRLV EIEPGKRIKL QIWDTAGQER FRSITRAYYR NSVGGLLLFD ITNRRSFQNV HEWLEETKVH VQPYQIVFVL VGHKCDLDTQ RQVTRHEAEK LAAAYGMKYI ETSARDAINV EKAFTDLTRD IYELVKRGEI TIQEGWEGVK SGFVPNVVHS SEEVVKSERR CLC |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 24,622 Da |
| **Sequence Positions** | 1-213, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 300271 |
| **3D Structure** | ModBase 3D Structure for Q96DA2 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for RAB39B recombinant protein** | This gene encodes a member of the Rab family of proteins. Rab proteins are small GTPases that are involved in vesicular trafficking. |
| **Other Notes** | Small volumes of RAB39B recombinant protein 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 RAB39B purchase** | MBS1423924 is a recombinant protein targeting RAB39B. Also known as Recombinant Human Ras-related protein Rab-39B (RAB39B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB39B. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 25188193 |
| **NCBI GeneID** | 116442 |
| **NCBI Accession #** | NP_741995.1 |

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| **UniProt Primary Accession #** | Q96DA2 |
| **UniProt Secondary Accession #** | Q5JT79; Q8NEX3 |
| **UniProt Related Accession #** | Q96DA2 |
| **GenBank Nucleotide #** | NM_171998.3 |
| **NCBI Official Full Name** | ras-related protein Rab-39B |
| **NCBI Official Synonym Full Names** | RAB39B, member RAS oncogene family |
| **NCBI Official Symbol** | RAB39B |
| **NCBI Official Synonym Symbols** | WSN; BGMR; WSMN; MRX72 |
| **UniProt Protein Name** | Ras-related protein Rab-39B |
| **Protein Family** | Ras-related protein |
| **UniProt Gene Name** | RAB39B |
| **NCBI Protein Information** | ras-related protein Rab-39B |
| **NCBI Summary for RAB39B** | This gene encodes a member of the Rab family of proteins. Rab proteins are small GTPases that are involved in vesicular trafficking. Mutations in this gene are associated with X-linked cognitive disability. [provided by RefSeq, Aug 2013] |
| **UniProt Comments for RAB39B** | Small GTPases Rab involved in autophagy (PubMed:27103069). 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:27103069). May regulate the homeostasis of SNCA/alpha-synuclein. Together with PICK1 proposed to ensure selectively GRIA2 exit from the endoplasmic reticulum to the Golgi and to regulate AMPAR compostion at the post-synapses and thus synaptic transmission (). |
| **Research Articles on RAB39B** | **1.** X-linked juvenile parkinsonism could be caused by a RAB39B mutation, and basal ganglia calcification may be a novel clinical feature of RAB39B-related parkinsonism. |
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