# RAB18 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | RAB18, Recombinant Protein |
| **Full Product Name** | Recombinant Human RAB18 |
| **Product Gene Name** | RAB18 recombinant protein |
| **Product Synonym Names** | AA959686; RAB18; RAB18 small GTPase; RAB18; member RAS oncogene family; RAB18_HUMAN; RAB18LI1; Ras related protein Rab 18; Ras-asssociated protein RAB18; Ras-related protein Rab-18; RP11-148B2.1; WARBM3 |
| **Host** | E Coli |
| **Form/Format** | Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4 |
| **Purity/Purification** | Greater than 85% by SDS-PAGE gel analyses |
| **Preparation and Storage** | Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution |
| **Molecular Weight** | 22,977 Da |
| **Sequence Positions** | 1-206 |
| **Chromosome Location** | Chromosome: 10; NC_000010.10 (27793103..27831166). Location: 10p12.1 |
| **OMIM** | 602207 |
| **3D Structure** | ModBase 3D Structure for Q9NP72 |
| **Species** | Human |
| **Tag** | N-terminal His-IF2DI Tag |
| **Reconstitution** | Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for RAB18 recombinant protein** | Western Blot (WB), ELISA (EIA) |
| **Related Product Information for RAB18 recombinant protein** | MBS7613052 is a recombinant protein targeting RAB18. Also known as Recombinant Human RAB18. Host: E Coli. |
| **Other Notes** | Small volumes of RAB18 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB18. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 374081854 |
| **NCBI GeneID** | 22931 |
| **NCBI Accession #** | NP_001243339.1 |
| **UniProt Primary Accession #** | Q9NP72 |
| **UniProt Secondary Accession #** | Q53FX8; Q56UN9; Q6FIH1; B3KMC7; B7Z333; D3DRW1 |

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| **UniProt Related Accession #** | Q9NP72 |
| **GenBank Nucleotide #** | NM_001256410.1 |
| **NCBI Official Full Name** | ras-related protein Rab-18 isoform 2 |
| **NCBI Official Synonym Full Names** | RAB18, member RAS oncogene family |
| **NCBI Official Symbol** | RAB18 |
| **NCBI Official Synonym Symbols** | WARBM3; RAB18LI1 |
| **UniProt Protein Name** | Ras-related protein Rab-18 |
| **Protein Family** | Dehydrin |
| **UniProt Gene Name** | RAB18 |
| **UniProt Entry Name** | RAB18_HUMAN |
| **NCBI Protein Information** | ras-related protein Rab-18; RAB18 small GTPase |
| **NCBI Summary for RAB18** | The protein encoded by this gene is a member of a family of Ras-related small GTPases that regulate membrane trafficking in organelles and transport vesicles. Knockdown studies is zebrafish suggest that this protein may have a role in eye and brain development. Mutations in this gene are associated with Warburg micro syndrome type 3. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012] |
| **UniProt Comments for RAB18** | RAB18: a small G protein that plays a role in apical endocytosis/recycling. May be involved in transport between the plasma membrane and early endosomes.<br><br>Protein type: G protein, monomeric; G protein; G protein, monomeric, Rab<br><br>Chromosomal Location of Human Ortholog: 10p12.1<br><br>Cellular Component: Golgi apparatus; plasma membrane; intracellular<br><br>Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding<br><br>Biological Process: intracellular protein transport; eye development; metabolic process; small GTPase mediated signal transduction; brain development; Rab protein signal transduction<br><br>Disease: Warburg Micro Syndrome 3 |
| **Research Articles on RAB18** | **1.** Micro syndrome has been associated with causative mutations in three disease genes: RAB3GAP1, RAB3GAP2 and RAB18. Martsolf syndrome has been associated with a mutation in RAB3GAP2. [Review] |
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