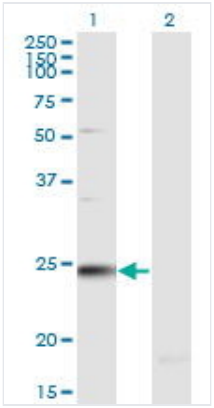
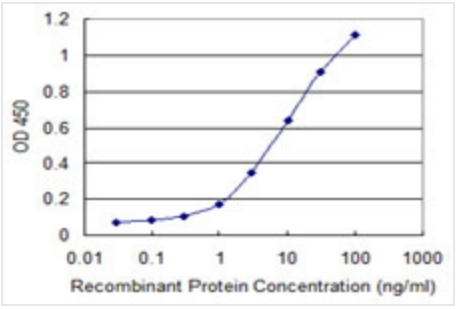
# RAB7B Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | RAB7B, Monoclonal Antibody |
| **Full Product Name** | RAB7B (RAB7B, Member RAS Oncogene Family, MGC16212, MGC9726, RAB7) (APC) |
| **Product Gene Name** | anti-RAB7B antibody |
| **Product Synonym Names** | RAB7B; Member RAS Oncogene Family; MGC16212; MGC9726; RAB7 |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a,k |
| **Clone Number** | 1C3 |
| **Host** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC). |
| **Purity/Purification** | Purified |
| **Specificity** | Recognizes RAB7B. |
| **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. |
| **3D Structure** | ModBase 3D Structure for Q96AH8 |
| **Immunogen** | RAB7B (NP_796377, 100aa-199aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | DIWRGDVLAKIVPMEQSYPMVLLGNKIDLADRKVPQEVAQGWCREKDIPYFEVSAKNDINVVQAFEMLASRALSRYQSILENHLTESIKLSPDQSRSRCC |
| **Conjugate** | APC |
| **Product Categories/Family for anti-RAB7B antibody** | Antibodies; GTPase; Rab; Ras; Rho Proteins |
| **Applications Tested/Suitable for anti-RAB7B antibody** | Western Blot (WB) |
| **Application Notes for anti-RAB7B antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-RAB7B antibody** | MBS6168496 is an antibody targeting RAB7B. Also known as RAB7B (RAB7B, Member RAS Oncogene Family, MGC16212, MGC9726, RAB7) (APC). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant RAB7B. |
| **Other Notes** | Small volumes of anti-RAB7B 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. |




**Western Blot (WB) of anti-RAB7B antibody**
Western Blot analysis of RAB7B expression in transfected 293T cell line by RAB7B monoclonal antibody (M02), clone 1C3.Lane 1: RAB7B transfected lysate(22.5 KDa).Lane 2: Non-transfected lysate.




**Testing Data of anti-RAB7B antibody**
Detection limit for recombinant GST tagged RAB7B is 0.1 ng/ml as a capture antibody.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB7B. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 256985158 |
| **NCBI GeneID** | 338382 |
| **NCBI Accession #** | NP_796377 |
| **UniProt Primary Accession #** | Q96AH8 |
| **UniProt Related Accession #** | Q96AH8 |
| **GenBank Nucleotide #** | NP_796377.3 |
| **NCBI Official Full Name** | ras-related protein Rab-7b isoform a |
| **NCBI Official Synonym Full Names** | RAB7B, member RAS oncogene family |
| **NCBI Official Symbol** | RAB7B |
| **NCBI Official Synonym Symbols** | RAB7 |
| **UniProt Protein Name** | Ras-related protein Rab-7b |
| **Protein Family** | Ras-related protein |
| **UniProt Gene Name** | RAB7B |
| **UniProt Entry Name** | RAB7B_HUMAN |
| **NCBI Protein Information** | ras-related protein Rab-7b |

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| **UniProt Comments for RAB7B** | RAB7B: Controls vesicular trafficking from endosomes to the trans-Golgi network (TGN). Acts as a negative regulator of TLR9 signaling and can suppress TLR9-triggered TNFA, IL6, and IFNB production in macrophages by promoting TLR9 lysosomal degradation. Also negatively regulates TLR4 signaling in macrophages by promoting lysosomal degradation of TLR4. Promotes megakaryocytic differentiation by increasing NF-kappa-B-dependent IL6 production and subsequently enhancing the association of STAT3 with GATA1. Not involved in the regulation of the EGF- and EGFR degradation pathway. Belongs to the small GTPase superfamily. Rab family.<br><br>Protein type: G protein; G protein, monomeric, Rab; G protein, monomeric<br><br>Chromosomal Location of Human Ortholog: 1q32<br><br>Cellular Component: Golgi apparatus; phagocytic vesicle membrane; lysosome; late endosome; trans-Golgi network; phagocytic vesicle<br><br>Molecular Function: GTP binding<br><br>Biological Process: negative regulation of toll-like receptor 9 signaling pathway; protein transport; small GTPase mediated signal transduction; negative regulation of toll-like receptor 4 signaling pathway; positive regulation of interleukin-6 production; positive regulation of megakaryocyte differentiation; activation of NF-kappaB transcription factor |
| **Research Articles on RAB7B** | **1.** TBC1D5 is a GAP for Rab7b in the control of endosomal transport to the trans-Golgi. |
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