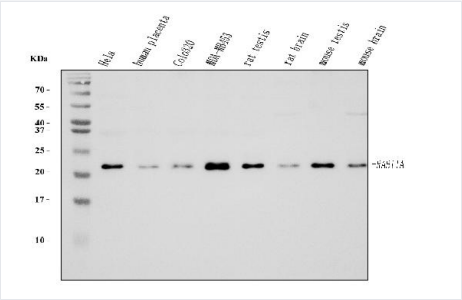
# RAB11A Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

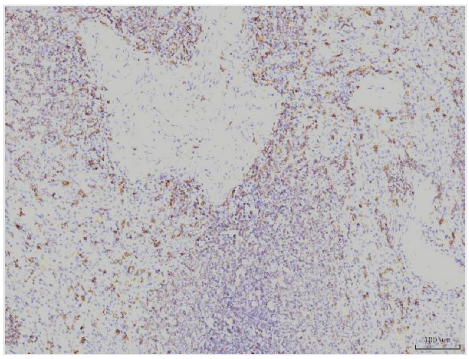
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| **Product Name** | Rab11A, Monoclonal Antibody |
| **Full Product Name** | Anti-Rab11A Antibody Picoband (monoclonal, 4H9) |
| **Product Gene Name** | anti-RAB11A antibody |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse IgG2b |
| **Clone Number** | 4H9 |
| **Host** | Mouse |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4. |
| **Purity/Purification** | Immunogen affinity purified. |
| **Concentration** | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific) |
| **Preparation and Storage** | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing. |
| **Molecular Weight** | 216 |
| **Chromosome Location** | Chromosome: 15; NC_000015.9 (66161629..66184329). Location: 15q22.31 |
| **OMIM** | 605570 |
| **3D Structure** | ModBase 3D Structure for P62491 |
| **Reconstitution** | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the C-terminus of human Rab11A (171-211aa EIYRIVSQKQMSDRRENDMSPSNNVVPIHVPPTTENKPKVQ), identical to the related mouse and rat sequences. |
| **Product Categories/Family for anti-RAB11A antibody** | Primary Antibodies, Mouse Monoclonal Antibodies |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for anti-RAB11A antibody** | Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS) |
| **Application Notes for anti-RAB11A antibody** | WB: 0.25-0.5 ug/ml, Human, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Human<br>ICC/IF: 5 ug/ml, Human<br>FC/FACS: 1-3 ug/1x10^6 cells, Human, Mouse, Rat<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Mouse IgG (#MBS176445) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (#MBS176472) for IHC(P) and ICC. |
| **Related Product Information for anti-RAB11A antibody** | Ras-related protein Rab-11A is a protein that in humans is encoded by the RAB11A gene. The protein encoded by this gene belongs to the small GTPase superfamily, Rab family which plays essential roles in vesicle and granule targeting. It is mapped to 15q22.31. RAB11A is associated with both constitutive and regulated secretory pathways, and may be involved in protein transport. Additionally, RAB11A can control intracellular trafficking of the innate immune receptor TLR4, and thereby also receptor signaling. It has been shown to interact with RAB11FIP2, RAB11FIP4, and RAB11FIP1 and so on. |

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| **Other Notes** | Small volumes of anti-RAB11A 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. |
| **Searchable Terms for RAB11A purchase** | MBS1756784 is an antibody targeting RAB11A. Also known as Anti-Rab11A Antibody Picoband (monoclonal, 4H9). Reactive in Human, Mouse, Rat. Host: Mouse. |



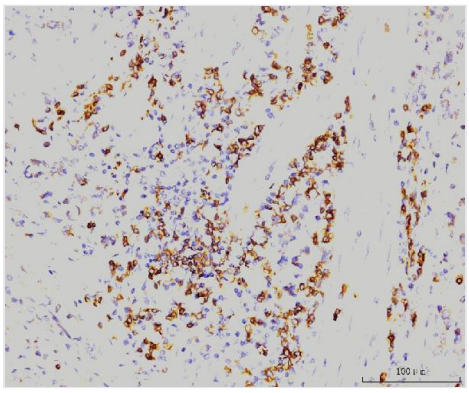

**Western Blot (WB) of anti-RAB11A antibody**

Figure 1. Western blot analysis of Rab11A using anti-Rab11A antibody (MBS1756784).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human placenta tissue lysates,Lane 3: human Colo320 lysates,Lane 4: human MDA-MB453 whole cell lysates,Lane 5: rat testis tissue lysates,Lane 6: rat brain tissue lysates,Lane 7: mouse testis tissue lysates,Lane 8: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Rab11A antigen affinity purified monoclonal antibody (#MBS1756784) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Rab11A at approximately 22 kDa. The expected band size for Rab11A is at 22 kDa.



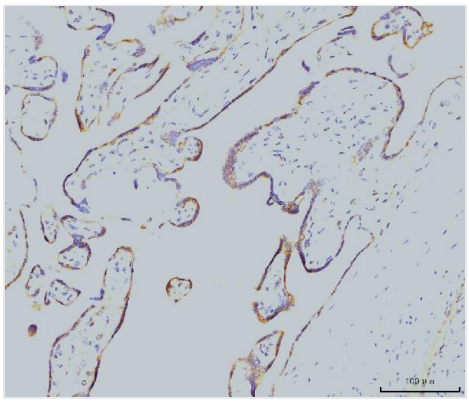
**Immunohistochemistry (IHC) of anti-RAB11A antibody**

Figure 2. IHC analysis of Rab11A using anti-Rab11A antibody (MBS1756784).Rab11A was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Rab11A Antibody (MBS1756784) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (#SA1021) with DAB as the chromogen.



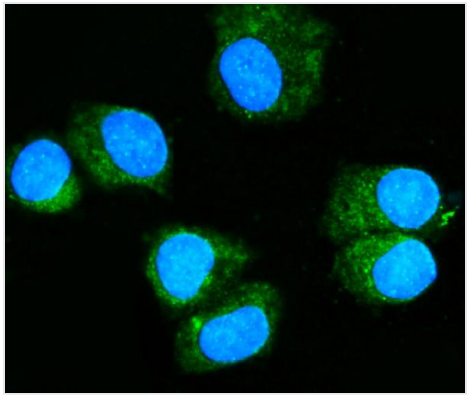
**Immunohistochemistry (IHC) of anti-RAB11A antibody**

Figure 3. IHC analysis of Rab11A using anti-Rab11A antibody (MBS1756784).Rab11A was detected in a paraffin-embedded section of human gastric carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Rab11A Antibody (MBS1756784) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (#SA1021) with DAB as the chromogen.

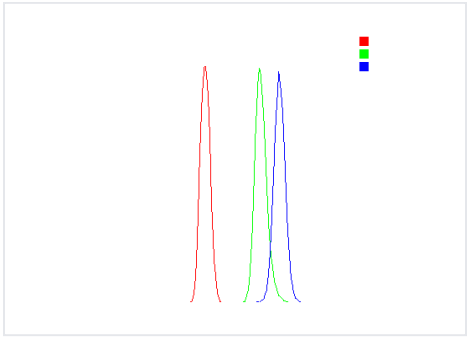


**Immunohistochemistry (IHC) of anti-RAB11A antibody**

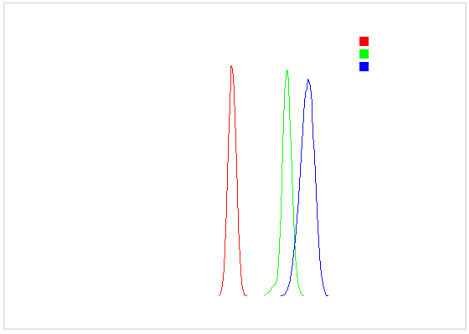
Figure 4. IHC analysis of Rab11A using anti-Rab11A antibody (MBS1756784).Rab11A was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-Rab11A Antibody (MBS1756784) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (#SA1021) with DAB as the chromogen.



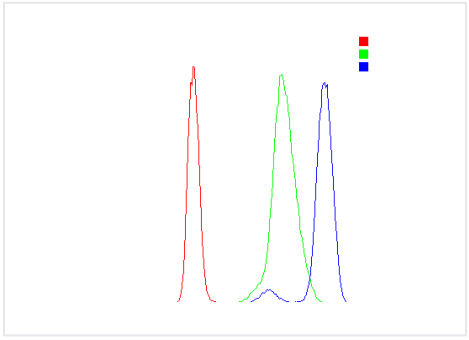
**Immunofluorescence (IF) of anti-RAB11A antibody**
Figure 5. IF analysis of Rab11A using anti-Rab11A antibody (MBS1756784).Rab11A was detected in an immunocytochemical section of T-47D cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-Rab11A Antibody (MBS1756784) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Mouse IgG (MBS177407) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



**Flow Cytometry (FC/FACS) of anti-RAB11A antibody**
Figure 6. Flow Cytometry analysis of ANA-1 cells using anti-Rab11A antibody (MBS1756784).Overlay histogram showing ANA-1 cells stained with MBS1756784 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Rab11A Antibody (MBS1756784, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG (MBS177407, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



**Flow Cytometry (FC/FACS) of anti-RAB11A antibody**
Figure 7. Flow Cytometry analysis of RH35 cells using anti-Rab11A antibody (MBS1756784).Overlay histogram showing RH35 cells stained with MBS1756784 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Rab11A Antibody (MBS1756784, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG (MBS177407, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



**Flow Cytometry (FC/FACS) of anti-RAB11A antibody**
Figure 8. Flow Cytometry analysis of U937 cells using anti-Rab11A antibody (MBS1756784).Overlay histogram showing U937 cells stained with MBS1756784 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Rab11A Antibody (MBS1756784, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG (MBS177407, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB11A. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 332205939 |
| **NCBI GeneID** | 8766 |
| **NCBI Accession #** | NP_001193765.1 |
| **UniProt Primary Accession #** | P62491 |
| **UniProt Secondary Accession #** | P24410; Q5TZN9; Q9JLX1; B2R4B6; B4DT13 |
| **UniProt Related Accession #** | P62491 |
| **GenBank Nucleotide #** | NM_001206836.1 |
| **NCBI Official Full Name** | ras-related protein Rab-11A isoform 2 |
| **NCBI Official Synonym Full Names** | RAB11A, member RAS oncogene family |
| **NCBI Official Symbol** | RAB11A |

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|---|---|
| **NCBI Official Synonym Symbols** | YL8 |
| **UniProt Protein Name** | Ras-related protein Rab-11A |
| **UniProt Synonym Protein Names** | YL8 |
| **Protein Family** | Ras-related protein |
| **UniProt Gene Name** | RAB11A |
| **UniProt Synonym Gene Names** | RAB11; Rab-11 |
| **UniProt Entry Name** | RB11A_HUMAN |
| **NCBI Protein Information** | ras-related protein Rab-11A; rab-11; RAB 11A, member oncogene family |
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