

Anti-Rab11A Antibody Picoband™ (monoclonal, 4H9)

Catalog Number: M01436-2

About RAB11A

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.

Overview

Product Name	Anti-Rab11A Antibody Picoband™ (monoclonal, 4H9)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Rab11A Antibody Picoband™ (monoclonal, 4H9) catalog # M01436-2. Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Monoclonal 4H9
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Mouse
Uniprot ID	P62491

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Rab11A, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat

Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human

Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human

Flow Cytometry, 1-3 ug/ 1×10^6 cells, Human, Mouse, Rat

Anti-Rab11A Antibody Picoband™ (monoclonal, 4H9) (M01436-2) Images

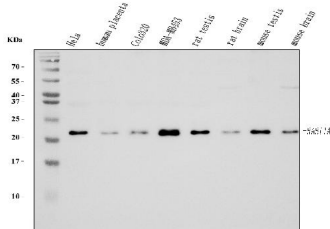


Figure 1. Western blot analysis of Rab11A using anti-Rab11A antibody (M01436-2).

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 (Catalog # M01436-2) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1001) 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.

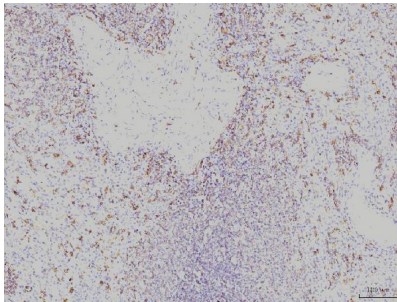


Figure 2. IHC analysis of Rab11A using anti-Rab11A antibody (M01436-2).

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 (M01436-2) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

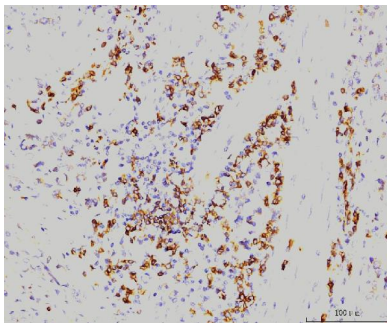


Figure 3. IHC analysis of Rab11A using anti-Rab11A antibody (M01436-2).

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 (M01436-2) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-

Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

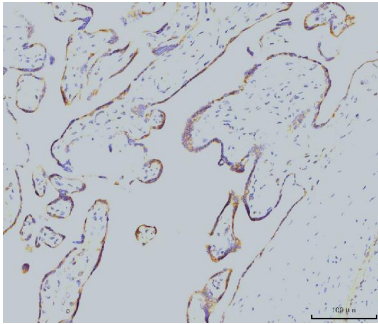


Figure 4. IHC analysis of Rab11A using anti-Rab11A antibody (M01436-2).

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 (M01436-2) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

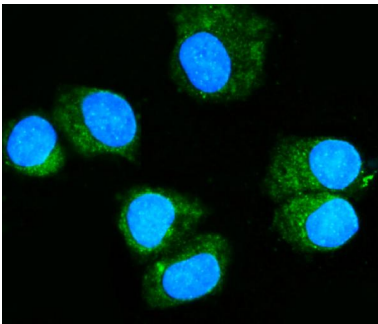


Figure 5. IF analysis of Rab11A using anti-Rab11A antibody (M01436-2).

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 (M01436-2) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

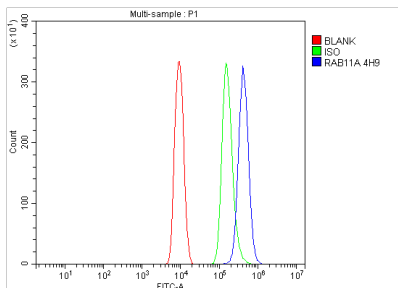


Figure 6. Flow Cytometry analysis of ANA-1 cells using anti-Rab11A antibody (M01436-2).

Overlay histogram showing ANA-1 cells stained with M01436-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Rab11A Antibody (M01436-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

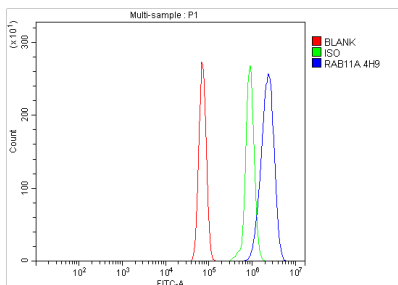


Figure 7. Flow Cytometry analysis of RH35 cells using anti-Rab11A antibody (M01436-2).

Overlay histogram showing RH35 cells stained with M01436-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Rab11A Antibody (M01436-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

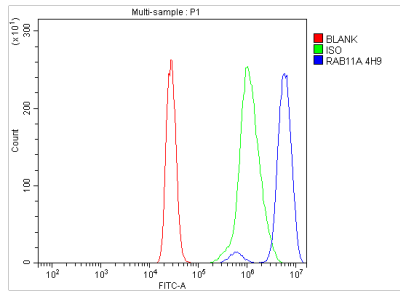


Figure 8. Flow Cytometry analysis of U937 cells using anti-Rab11A antibody (M01436-2).
Overlay histogram showing U937 cells stained with M01436-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Rab11A Antibody (M01436-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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