BOSTER BIOLOGICAL TECHNOLOGY
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Anti-RAB11B Antibody Picoband® (monoclonal, 6C5)

Catalog Number: M04526

About RAB11B

Ras-related protein Rab-11B is a protein that in humans is encoded by the RAB11B gene. It is mapped to 19p13.2. The Ras superfamily of small GTP-binding proteins, which includes the Ras, Ral, Rho, Rap, and Rab families, is involved in controlling a diverse set of essential cellular functions. The Rab family, including RAB11B, appears to play a critical role in regulating exocytotic and endocytotic pathways.

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Overview

Product Name	Anti-RAB11B Antibody Picoband® (monoclonal, 6C5)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RAB11B Antibody Picoband® (monoclonal, 6C5) catalog # M04526. Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IF, ICC, WB
Clonality	Monoclonal 6C5
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Mouse
Uniprot ID	Q15907

Technical Details

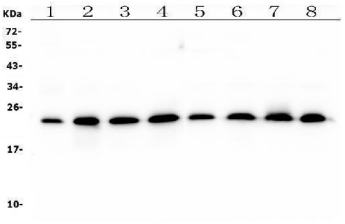
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human RAB11B, which shares 97.4% and 100% amino acid (aa) sequence identity with mouse and rat RAB11B, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P) and ICC.

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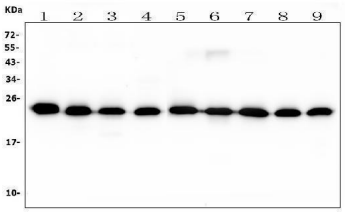
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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Anti-RAB11B Antibody Picoband® (monoclonal, 6C5) (M04526) Images



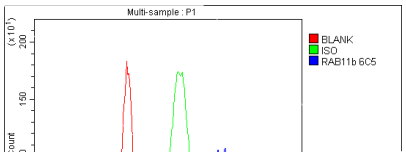
Western blot analysis of RAB11B using anti-RAB11B antibody (M04526). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HEK293 tissue lysates, Lane 2: human Hela whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human placenta whole cell lysates, Lane 5: human HepG2 whole cell lysates. Lane 6: human Caco-2 whole cell lysates. Lane 7: human THP-1 whole cell lysates. Lane 8: human Raji whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-RAB11B antigen affinity purified polyclonal antibody (Catalog # M04526) 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 RAB11B at approximately 24KD. The expected band size for RAB11B is at 24KD.



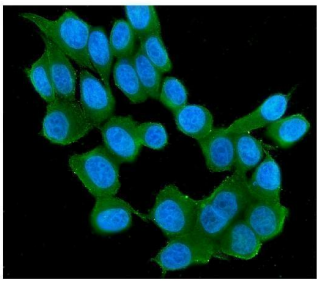
Western blot analysis of RAB11B using anti-RAB11B antibody (M04526). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat lung whole cell lysates, Lane 3: rat spleen whole cell lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse brain whole cell lysates. Lane 6: mouse lung whole cell lysates. Lane 7: mouse spleen whole cell lysates. Lane 8: mouse Neuro-2a whole cell lysates. Lane 9: mouse RAW246.7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-RAB11B antigen affinity purified polyclonal antibody (Catalog # M04526) at 0.5 g/mL overnight at 4C, 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 RAB11B at approximately 24KD. The expected band size for RAB11B is at 24KD.

Flow Cytometry analysis of Caco-2 cells using anti-RAB11B antibody (M04526). Overlay histogram showing Caco-2 cells stained with M04526 (Blue line). To facilitate intracellular

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staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-RAB11B Antibody (M04526, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF analysis of RAB11B using anti-RAB11B antibody (M04526). RAB11B was detected in immunocytochemical section of MCF7 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 2ug/mL mouse anti-RAB11B Antibody (M04526) 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.

1 Publications Citing This Product

1. PubMed ID: 33136001, Zhang C,Chen Y,Sun S,Zhang Y,Wang L,Luo Z,Liu M,Dong L,Dong N,Wu Q. A conserved LDL-receptor motif regulates corin and CD320 membrane targeting in polarized renal epithelial cells. Elife.2020 Nov 2;9:e56059. doi:10.7554/eLife.56059.PMID:33136001;PMCID:PMC

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