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antibody and ELISA experts

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Anti-MAP1B Antibody Picoband®

Catalog Number: A01760-1

About MAP1B

This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The product of this gene is a precursor polypeptide that presumably undergoes proteolytic processing to generate the final MAP1B heavy chain and LC1 light chain. Gene knockout studies of the mouse microtubule-associated protein 1B gene suggested an important role in development and function of the nervous system.

Overview

Product Name	Anti-MAP1B Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MAP1B Antibody Picoband® catalog # A01760-1. Tested in WB, IHC, IF, Flow Cytometry, ELISA 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	ELISA, Flow Cytometry, IF, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	Rabbit
Uniprot ID	P46821

Technical Details

Immunogen	E.coli-derived human MAP1B recombinant protein (Position: H102-R1849). Human MAP1B shares 89.9% and 89.2% amino acid (aa) sequence identity with mouse and rat MAP1B, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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, 0.25-0.5 ug/ml, Human, Mouse, Rat

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	Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Mouse, Rat Immunofluorescence, 5 ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml

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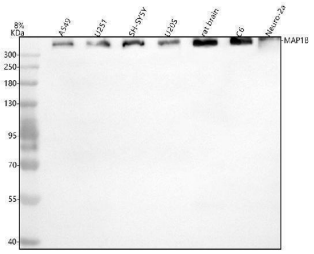
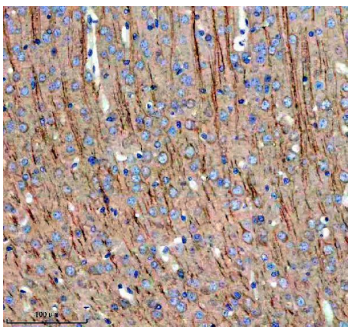
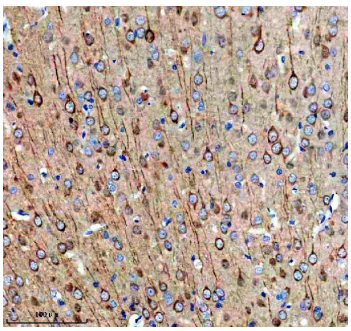
Anti-MAP1B Antibody Picoband® (A01760-1) Images



Western blot analysis of MAP1B using anti-MAP1B antibody (A01760-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human U20S whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat C6 whole cell lysates, Lane 7: mouse Neuro-2a whole cell 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 rabbit anti-MAP1B antigen affinity purified polyclonal antibody (A01760-1) 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-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for MAP1B at approximately 310 kDa. The expected band size for MAP1B is at 271 kDa.



IHC analysis of MAP1B using anti-MAP1B antibody (A01760-1). MAP1B was detected in a paraffin-embedded section of mouse brain 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 rabbit anti-MAP1B Antibody (A01760-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of MAP1B using anti-MAP1B antibody (A01760-1). MAP1B was detected in a paraffin-embedded section of rat brain 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 rabbit anti-MAP1B Antibody (A01760-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IF analysis of MAP1B using anti-MAP1B antibody (A01760-1). MAP1B was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed

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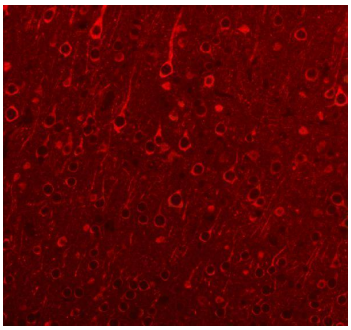
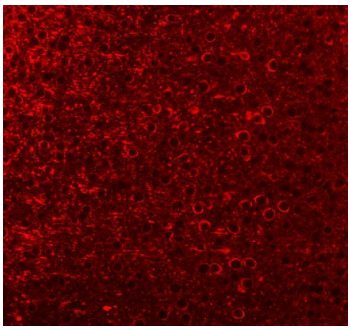
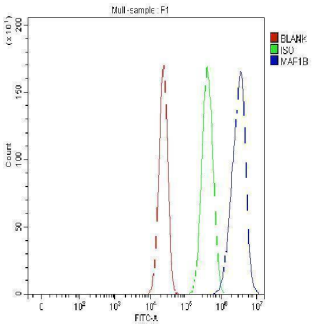


in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 4 ug/mL rabbit anti-MAP1B Antibody (A01760-1) overnight at 4°C. HRP conjugated goat anti-rabbit IgG (BA1054) was used as secondary antibody and incubated for 30 minutes at 37°C. Tyramide signal amplification was performed using TSA 620 reagent at 1:200 dilution at room temperature for 10 minutes. Visualize using a fluorescence microscope and filter sets appropriate for the label used. Fluorescence signals were visualized using a fluorescence microscope with filter sets appropriate for TSA 620 and DAPI.



IF analysis of MAP1B using anti-MAP1B antibody (A01760-1). MAP1B was detected in a paraffin-embedded section of mouse brain 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 4 ug/mL rabbit anti-MAP1B Antibody (A01760-1) overnight at 4°C. HRP conjugated goat anti-rabbit IgG (BA1054) was used as secondary antibody and incubated for 30 minutes at 37°C. Tyramide signal amplification was performed using TSA 620 reagent at 1:200 dilution at room temperature for 10 minutes. Visualize using a fluorescence microscope and filter sets appropriate for the label used. Fluorescence signals were visualized using a fluorescence microscope with filter sets appropriate for TSA 620 and DAPI.



Flow Cytometry analysis of A549 cells using anti-MAP1B antibody (A01760-1). Overlay histogram showing A549 cells stained with A01760-1 (Blue line). To facilitate intracellular 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 rabbit anti-MAP1B Antibody (A01760-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-MAP1B Antibody

For Research Use Only. Not for use in diagnostic procedures.