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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-ITM2C Antibody Picoband®

Catalog Number: A08857-1

About ITM2C

Integral membrane protein 2C is a protein that in humans is encoded by the ITM2C gene. The Integral membrane protein 2C (ITM2C) is a type II integral transmembrane protein belonging to a family composed of at least two other members, ITM2A and ITM2B. ITM2C, often called transmembrane protein BRI3, is highly expressed in brain tissue. Yeast two-hybrid screen system revealed that BRI3 could interact with beta-secretase beta-amyloid protein converting enzyme (BACE)1 and the microtubule-destabilizing protein SCG10 (STMN2). It may play a role in TNF-induced cell death and neuronal differentiation. BRI3 was found to inhibit the various processing of amyloid precursor protein (APP) by blocking the access of alpha- and beta-secretases to APP, competitive inhibition of APP processing by BRI3 may provide a new approach to Alzheimer disease (AD) therapy and prevention.

Overview

Product Name	Anti-ITM2C Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ITM2C Antibody Picoband® catalog # A08857-1. Tested in WB, FCM, 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, 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	Q9NQX7

Technical Details

Immunogen	E.coli-derived human ITM2C recombinant protein (Position: E33-D226). Human ITM2C shares 94.8% amino acid (aa) sequence identity with mouse and rat ITM2C.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 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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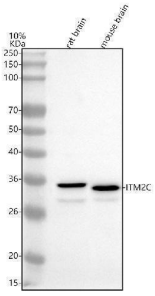
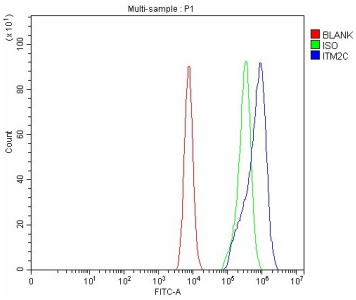
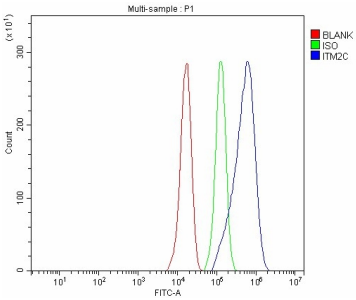
Anti-ITM2C Antibody Picoband® (A08857-1) Images



Western blot analysis of ITM2C using anti-ITM2C antibody (A08857-1). 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: rat brain tissue lysates, Lane 2: 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 rabbit anti-ITM2C antigen affinity purified polyclonal antibody (Catalog # A08857-1) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ITM2C at approximately 35 kDa. The expected band size for ITM2C is at 30 kDa.



Flow Cytometry analysis of CACO-2 cells using anti-ITM2C antibody (A08857-1). Overlay histogram showing CACO-2 cells stained with A08857-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ITM2C Antibody (A08857-1, 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.



Flow Cytometry analysis of PC-3 cells using anti-ITM2C antibody (A08857-1). Overlay histogram showing PC-3 cells stained with A08857-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ITM2C Antibody (A08857-1, 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.

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reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Anti-ITM2C Antibody

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