BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-PERM1 Antibody Picoband®

Catalog Number: A15642

About PERM1

PERM1 is predicted to play a role in glucose and lipid metabolism, energy transfer, and muscle contraction. In mouse muscle cells, Perm1 functions downstream of peroxisome proliferator-activated receptor-gamma coactivator-1 and estrogen-related receptors and regulates a subset of Pgc1- and Err-dependent genes.

Overview

Product Name	Anti-PERM1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-PERM1 Antibody Picoband® catalog # A15642. Tested in WB, ICC/IF, FCM, ELISA applications. This antibody reacts with Human. 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, ICC, 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	Q5SV97

Technical Details

Immunogen	E.coli-derived human PERM1 recombinant protein (Position: R69-N763). Human PERM1 shares 50.1% amino acid (aa) sequence identity with mouse PERM1.
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 ICC.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human

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	Flow Cytometry (Fixed), 1-3 ug /1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, -

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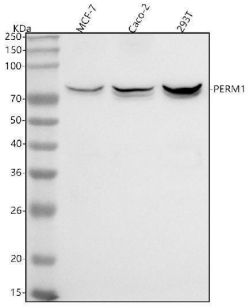
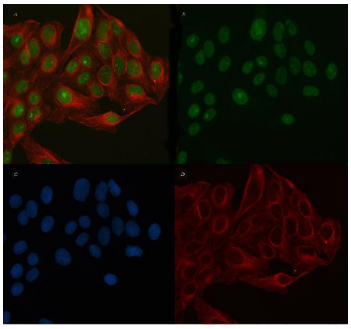
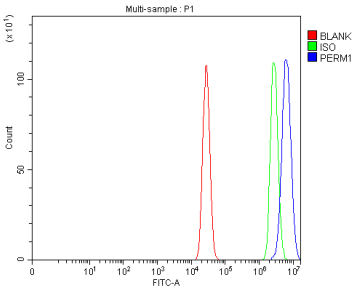
Anti-PERM1 Antibody Picoband® (A15642) Images



Western blot analysis of PERM1 using anti-PERM1 antibody (A15642). 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 MCF-7 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human 293T 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-PERM1 antigen affinity purified polyclonal antibody (Catalog # A15642) 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 PERM1 at approximately 75 kDa. The expected band size for PERM1 is at 85 kDa.



IF analysis of PERM1 using anti-PERM1 antibody (A15642) and anti-Beta Tubulin antibody (M01857-3). PERM1 was detected in immunocytochemical section of U2OS cell. 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 rabbit anti-PERM1 Antibody (A15642) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127)(B) and DyLight®550 Conjugated Goat Anti-Mouse IgG (BA1133)(D) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI(C). Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of MCF-7 cells using anti-PERM1 antibody (A15642). Overlay histogram showing MCF-7 cells stained with A15642 (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-PERM1 Antibody (A15642, 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 (Red line) was also used as a control.

Submit a product review to Biocompare.com

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