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Anti-TRAM1 Antibody Picoband®

Catalog Number: A04106

About TRAM1

TRAM1(Translocation-Associating Membrane Protein 1), By crosslinking and reconstitution of canine proteoliposomes, followed by microsequencing and PCR screening of canine kidney and HeLa cell cDNA libraries, Gorlich et al.(1992) isolated cDNAs encoding TRAM(translocating chain-associating membrane protein). The International Radiation Hybrid Mapping Consortium mapped the TRAM gene to chromosome 8. Sequence analysis predicted that human TRAM is a 374-amino acid, 8-pass transmembrane protein that shares 95% amino acid identity with the canine protein. Functional analysis indicated that TRAM influences glycosylation and is stimulatory or required for the translocation of secretory proteins.

Overview

Product Name	Anti-TRAM1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TRAM1 Antibody Picoband® catalog # A04106. Tested in Flow Cytometry, 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, 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	Q15629

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TRAM1, which shares 89.5% amino acid (aa) sequence identity with mouse and rat TRAM1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

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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 µg/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human

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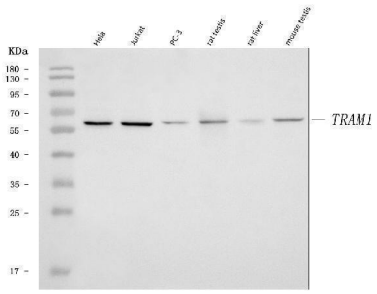
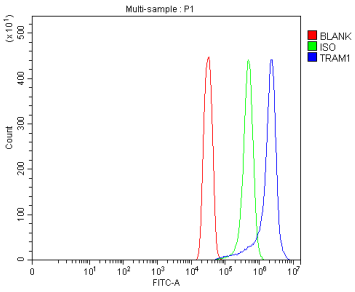
Anti-TRAM1 Antibody Picoband® (A04106) Images



Western blot analysis of TRAM1 using anti-TRAM1 antibody (A04106). 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 Jurkat whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: rat liver tissue lysates, Lane 6: mouse testis 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-TRAM1 antigen affinity purified polyclonal antibody (Catalog # A04106) 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 TRAM1 at approximately 55-60 kDa. The expected band size for TRAM1 is at 43 kDa.



Flow Cytometry analysis of SiHa cells using anti-TRAM1 antibody (A04106). Overlay histogram showing SiHa cells stained with A04106 (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-TRAM1 Antibody (A04106, 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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