

Anti-Tspan1 Antibody Picoband™

Catalog Number: A08242-1

About Tspan1

TSPAN1 belongs to the large family of tetraspanins, so named because they contain 4 transmembrane domains. Tetraspanins are frequently expressed at the cell surface in association with each other and with other molecules, such as integrins (see ITGB1; 135630), and they function to regulate cell adhesion, migration, proliferation, and differentiation.

Overview

Product Name	Anti-Tspan1 Antibody Picoband™
Reactive Species	Rat
Description	Boster Bio Anti-Tspan1 Antibody Picoband™ catalog # A08242-1. Tested in ELISA, Flow Cytometry, IF, IHC, WB applications. This antibody reacts with Rat.
Application	ELISA, Flow Cytometry, IF, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.005mg NaN ₃ .
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	Rabbit
Uniprot ID	Q6AYR9

Technical Details

Immunogen	E.coli-derived rat Tspan1 recombinant protein (Position: A125-A212).
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).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5ug/ml, Rat

Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Rat

Immunofluorescence, 5 ug/ml, Rat

Flow Cytometry, 1-3ug/1x10⁶ cells, Rat

Direct ELISA, 0.1-0.5ug/ml, Rat

Anti-Tspan1 Antibody Picoband™ (A08242-1) Images

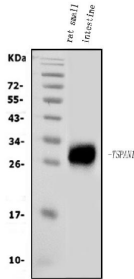


Figure 1. Western blot analysis of Tspan1 using anti-Tspan1 antibody (A08242-1).

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 50ug of sample under reducing conditions.

Lane 1: rat small intestine tissue 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 rabbit anti-Tspan1 antigen affinity purified polyclonal antibody (Catalog # A08242-1) 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 Tspan1 at approximately 28-30KD. The expected band size for Tspan1 is at 28-30KD.

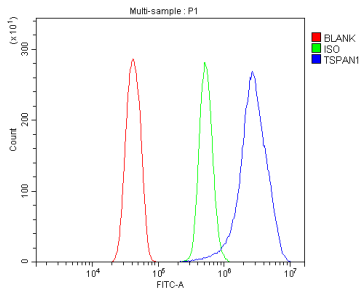


Figure 2. Flow Cytometry analysis of RH35 cells using anti-Tspan1 antibody (A08242-1).

Overlay histogram showing RH35 cells stained with A08242-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Tspan1 Antibody (A08242-1, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

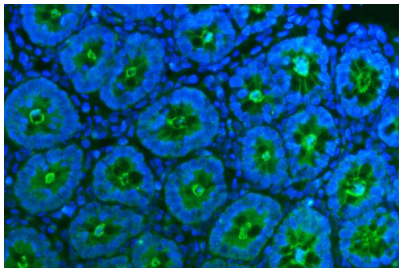
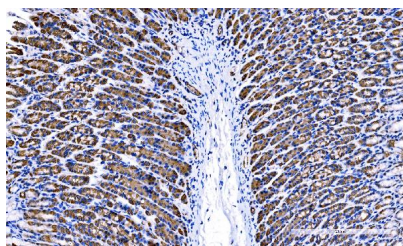


Figure 3. IF analysis of Tspan1 using anti-Tspan1 antibody (A08242-1).

Tspan1 was detected in a paraffin-embedded section of rat stomach 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 5 ug/mL rabbit anti-Tspan1 Antibody (A08242-1) overnight at 4°C. Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using DyLight®488 Conjugated Avidin (BA1128). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Figure 4. IHC analysis of Tspan1 using anti-Tspan1 antibody (A08242-1).

Tspan1 was detected in a paraffin-embedded section of rat



stomach 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-Tspan1 Antibody (A08242-1) 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.

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