BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

# 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.

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## Overview

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|---|---|
| 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. 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 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3. |
| 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

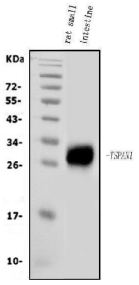
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| Immunogen | E.coli-derived rat Tspan1 recombinant protein (Position: A125-A212). |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |

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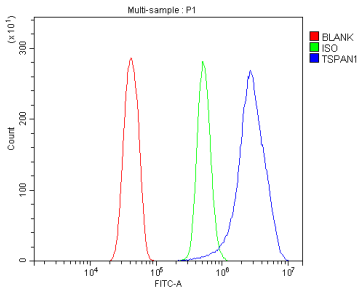
| | |
|---|---|
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5ug/ml, Rat<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Rat<br>Immunofluorescence, 5 ug/ml, Rat<br>Flow Cytometry (Fixed), 1-3ug/1x$10^6$ cells, Rat<br>ELISA, 0.1-0.5ug/ml,<br><br>Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells. |

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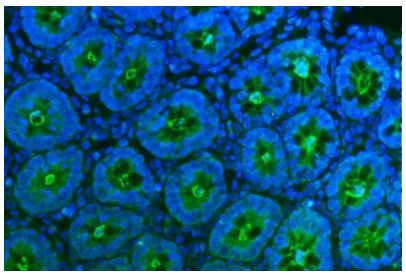
# Anti-Tspan1 Antibody Picoband® (A08242-1) Images




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.



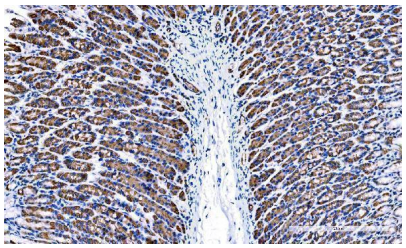

Flow Cytometry analysis of RH35 cells using anti-Tspan1 antibody (A08242-1). Overlay histogram showing RH35 cells stained with A08242-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



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.

IHC analysis of Tspan1 using anti-Tspan1 antibody (A08242-1). Tspan1 was detected in a paraffin-embedded

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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.

## Anti-Tspan1 Antibody

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