

## Anti-TMEM50B Antibody Picoband®

Catalog Number: A14199-1

### About TMEM50B

Predicted to be involved in late endosome to vacuole transport via multivesicular body sorting pathway. Located in endoplasmic reticulum.

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## Overview

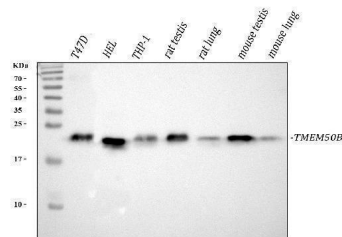
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-TMEM50B Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description          | Boster Bio Anti-TMEM50B Antibody Picoband® catalog # A14199-1. Tested in Flow Cytometry, IF, ICC, 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, IF, ICC, WB                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                         |
| 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           | P56557                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Technical Details

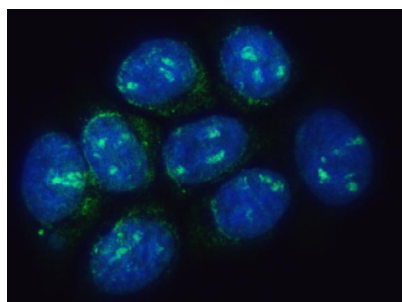
|                               |                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the N-terminus of human TMEM50B, identical to the related mouse and rat sequences.                                         |
| 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. |
| 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 µg/ml.                                                                                                                                                                                                                                            |
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                                                         |
| Suggested Dilutions | Western blot, 0.1-0.25 µg/ml, Human, Mouse, Rat<br>Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human<br>Flow Cytometry (Fixed), 1-3 µg/1x10 <sup>6</sup> cells, Human<br><br>Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells. |

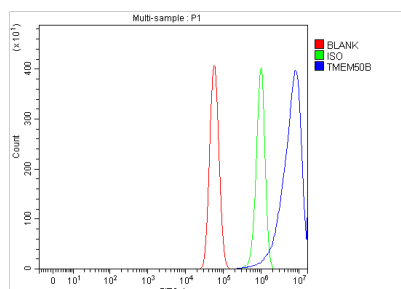
## Anti-TMEM50B Antibody Picoband® (A14199-1) Images



Western blot analysis of TMEM50B using anti-TMEM50B antibody (A14199-1). 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: human T47D whole cell lysates, Lane 2: human HEL whole cell lysates, Lane 3: human THP-1 whole cell lysates, Lane 4: rat testis tissue lysates, Lane 5: rat lung tissue lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse lung 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-TMEM50B antigen affinity purified polyclonal antibody (Catalog # A14199-1) at 0.25 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 TMEM50B at approximately 23 kDa. The expected band size for TMEM50B is at 18 kDa.



IF analysis of TMEM50B using anti-TMEM50B antibody (A14199-1). TMEM50B was detected in an immunocytochemical section of MCF7 cells. 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-TMEM50B Antibody (A14199-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of U87 cells using anti-TMEM50B antibody (A14199-1). Overlay histogram showing U87 cells stained with A14199-1 (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-TMEM50B Antibody (A14199-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-TMEM50B Antibody

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