

Anti-TMEM52B Antibody Picoband®

Catalog Number: A17417-1

About TMEM52B

TMEM52B (Transmembrane Protein 52B, also known as C12orf59) is a Protein Coding gene. The TMEM52B gene, located on 12p13.2, is conserved in chimpanzee, dog, cow, mouse, rat, chicken, and frog. 2 alternatively spliced human isoforms have been reported. The 183-amino acid protein has a reported mass of 20,002 daltons. The cellular localization is predicted to be membrane-associated. C12orf59 might act as a potential oncogenic protein in gastric cancer (GC). Researchers propose that the decreased C12orf59 expression status is a prognostic biomarker of ccRCC and cooperates with the loss of von Hippel-Lindau (VHL) all the while promoting renal carcinogenesis. 192 organisms have orthologs with human gene TMEM52B.

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Overview

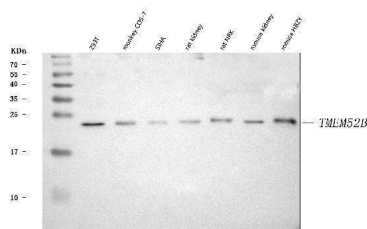
Product Name	Anti-TMEM52B Antibody Picoband®
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-TMEM52B Antibody Picoband® catalog # A17417-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q4KMG9

Technical Details

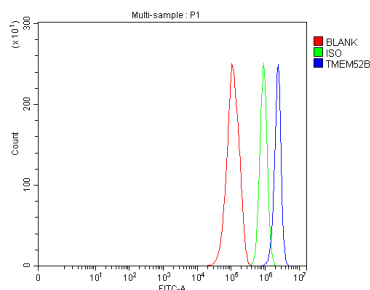
Immunogen	E.coli-derived human TMEM52B recombinant protein (Position: T22-N183).
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
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, Monkey, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10⁶ cells, Human ELISA, 0.1-0.5 ug/ml, - Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.

Anti-TMEM52B Antibody Picoband® (A17417-1) Images



Western blot analysis of TMEM52B using anti-TMEM52B antibody (A17417-1). 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 293T whole cell lysates, Lane 2: monkey COS-7 whole cell lysates, Lane 3: human SiHa whole cell lysates, Lane 4: rat kidney tissue lysates, Lane 5: rat NRK whole cell lysates, Lane 6: mouse kidney tissue lysates, Lane 7: mouse HBZY-1 whole cell lysate. 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-TMEM52B antigen affinity purified polyclonal antibody (Catalog # A17417-1) 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 TMEM52B at approximately 24 kDa. The expected band size for TMEM52B is at 20 kDa.



Flow Cytometry analysis of RT4 cells using anti-TMEM52B antibody (A17417-1). Overlay histogram showing RT4 cells stained with A17417-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-TMEM52B Antibody (A17417-1, 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.

Anti-TMEM52B Antibody

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