BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-TRPC5 Antibody Picoband®

**Catalog Number:** PB9271

## About TRPC5

Short transient receptor potential channel 5 (TrpC5), also known as TRP-5, is a protein that in humans is encoded by the TRPC5 gene. TRPC5 is subtype of the TRPC family of mammalian transient receptor potential ion channels. It is mapped to Xq23. The predicted 973-amino acid TRPC5 protein has a calculated molecular mass of 111.5 kD. It contains the characteristic 8 predicted transmembrane domains (TM1 through TM8), including a pore region (TM7) between TM6 and TM8. TRPC5 is a multi-pass membrane protein and is thought to form a receptor-activated non-selective calcium permeant cation channel, and it is a candidate for the regulation of calcium waves. The protein is active alone or as a heteromultimeric assembly with TRPC1, TRPC3, and TRPC4.

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## Overview

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| Product Name | Anti-TRPC5 Antibody Picoband® |
| Reactive Species | Human |
| Description | Boster Bio Anti-TRPC5 Antibody Picoband® catalog # PB9271. Tested in WB applications. This antibody reacts with Human. 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 | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3.<br>*This antibody is supplied in a stabilized formulation.<br>Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| 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 | Q9UL62 |

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## Technical Details

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| Immunogen | E.coli-derived human TRPC5 recombinant protein (Position: K684-L973). Human TRPC5 shares 90% amino acid (aa) sequence identity with mouse TRPC5. |
| 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 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Human |

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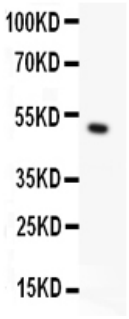
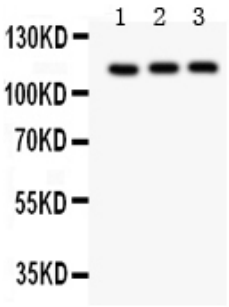
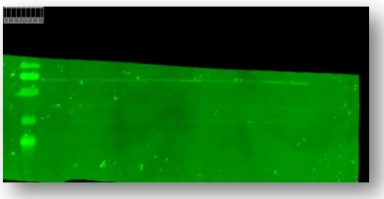
# Anti-TRPC5 Antibody Picoband® (PB9271) Images




Anti-TRPC5 Picoband antibody, PB9271, Western blottingAll lanes: Anti TRPC5 (PB9271) at 0.5ug/mlWB: Recombinant Human TRPC5 Protein 0.5ngPredicted bind size: 50KDObserved bind size: 50KD




Anti-TRPC5 Picoband antibody, PB9271, Western blottingAll lanes: Anti TRPC5 (PB9271) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: U87 Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 111KDObserved bind size: 111KD



Western blot analysis of TRPC5 using anti-TRPC5 antibody (PB9271). 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. 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-TRPC5 antibody (PB9271) at 1:200 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 1:1000 for 1.5 hour at RT. The signal is developed using a fluorescent. A specific band was detected for TRPC5 at approximately 111 kDa. The expected band size for TRPC5 is at 111 kDa.

Anti-TRPC5 Antibody

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