BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-TRPC3 Antibody Picoband®

**Catalog Number:** PA1753

## About TRPC3

Short transient receptor potential channel 3 (TrpC3) also known as transient receptor protein 3 (TRP-3) is a protein that in humans is encoded by the TRPC3 gene. The protein encoded by this gene is a membrane protein that can form a non-selective channel permeable to calcium and other cations. The encoded protein appears to be induced to form channels by a receptor tyrosine kinase-activated phosphatidylinositol second messenger system and also by depletion of intracellular calcium stores. Two transcript variants encoding different isoforms have been found for this gene.

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## Overview

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|---|---|
| Product Name | Anti-TRPC3 Antibody Picoband® |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-TRPC3 Antibody catalog # PA1753. Tested in IHC, 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 | IHC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.<br>*This antibody is supplied in a stabilized formulation. 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 | Q13507 |

## Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence at the C-terminus of human TRPC3, identical to the related rat and mouse 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 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 | Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat<br>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat |

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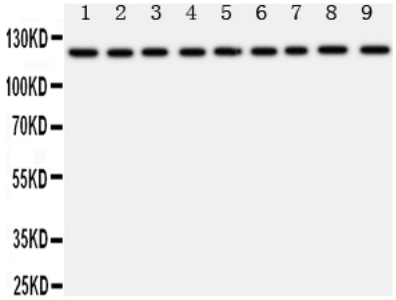
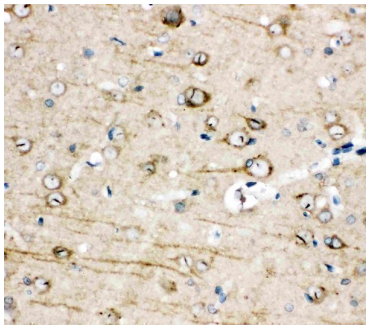
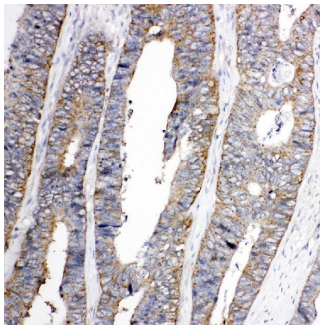
# Anti-TRPC3 Antibody Picoband® (PA1753) Images



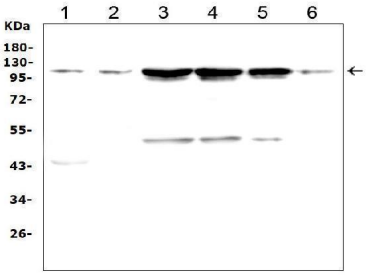

Anti-TRPC3 antibody, PA1753, Western blottingAll lanes: Anti TRPC3 (PA1753) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Lung Tissue Lysate at 50ugLane 3: Rat Intestine Tissue Lysate at 50ugLane 4: Rat Ovary Tissue Lysate at 50ugLane 5: U87 Whole Cell Lysate at 40ugLane 6: A549 Whole Cell Lysate at 40ugLane 7: COLO320 Whole Cell Lysate at 40ugLane 8: SW620 Whole Cell Lysate at 40ugLane 9: HELA Whole Cell Lysate at 40ugPredicted bind size: 97KDObserved bind size: 120KD



Anti-TRPC3 antibody, PA1753, IHC(P)IHC(P): Rat Brain Tissue



Anti-TRPC3 antibody, PA1753, IHC(P)IHC(P): Human Rectal Cancer Tissue




Western blot analysis of TRPC3 using anti-TRPC3 antibody (PA1753). 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 brain tissue lysates, Lane 2: mouse brain tissue lysates, Lane 3: human Hela whole cell lysates, Lane 4: human 22RV1 whole cell lysates, Lane 5: human U-87MG whole cell lysates, Lane 6: mouse Neuro-2a whole cell 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-TRPC3 antigen affinity purified polyclonal antibody (Catalog # PA1753) 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 1:10000 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

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TRPC3 at approximately 110KD. The expected band size for TRPC3 is at 93KD.

## Anti-TRPC3 Antibody

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