BOSTER BIOLOGICAL TECHNOLOGY
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Anti-TRPC3 Antibody Picoband®

Catalog Number: A01472

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

Product Name	Anti-TRPC3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TRPC3 Antibody Picoband® catalog # A01472. Tested in 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	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. *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	E.coli-derived human TRPC3 recombinant protein (Position: R718-L770). Human TRPC3 shares 96.2% amino acid (aa) sequence identity with both mouse and rat TRPC3.
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, Mouse, Rat, Human

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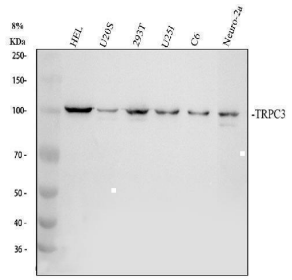
Anti-TRPC3 Antibody Picoband® (A01472) Images



Western blot analysis of TRPC3 using anti-TRPC3 antibody (A01472). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HEL whole cell lysates, Lane 2: human U2OS whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human U251 whole cell lysates, Lane 5: rat C6 whole cell lysates, Lane 6: mouse Neuro-2a whole cell 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-TRPC3 antigen affinity purified polyclonal antibody (A01472) 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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for TRPC3 at approximately 106 kDa. The expected band size for TRPC3 is at 106 kDa.

1 Publications Citing This Product

1. PubMed ID: 32844288, Wang Y,Liu L,Tao H,Wen L,Qin S.TRPC6 participates in the development of blood pressure variability increase in sino-aortic denervated rats. Heart Vessels. 2020 Dec;35(12):1755-1765.doi: 10.1007/s00380-020-01682-1.Epub 2020 Aug 25.PMID: 32844288.

Visit bosterbio.com/anti-trpc3-picoband-trade-antibody-a01472-boster.html to see all 1 publications.

Anti-TRPC3 Antibody

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