

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.

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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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

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.
Predicted Reactive Species	Human
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse, Rat, Human</p>

Anti-TRPC3 Antibody Picoband™ (A01472) Images

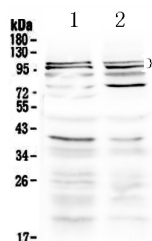


Figure 1. Western blot analysis of TRPC3 using anti-TRPC3 antibody (A01472).

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.

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 # 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 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 TRPC3 at approximately 97KD, 105KD. The expected band size for TRPC3 is at 97KD.

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.

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