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Anti-TRPC6 Antibody Picoband®

Catalog Number: A00625

About TRPC6

Transient receptor potential cation channel, subfamily C, member 6, also known as TRPC6, is a human gene encoding a protein of the same name. The protein encoded by this gene forms a receptor-activated calcium channel in the cell membrane. The channel is activated by diacylglycerol and is thought to be under the control of a phosphatidylinositol second messenger system. Activation of this channel occurs independently of protein kinase C and is not triggered by low levels of intracellular calcium. Defects in this gene are a cause of focal segmental glomerulosclerosis 2 (FSGS2).

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Overview

Product Name	Anti-TRPC6 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TRPC6 Antibody Picoband® catalog # A00625. 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	Q9Y210

Technical Details

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Immunogen	E. coli-derived human TRPC6 recombinant protein (Position: K771-E875). Human TRPC6 shares 82.9% amino acid (aa) sequence identity with mouse TRPC6.
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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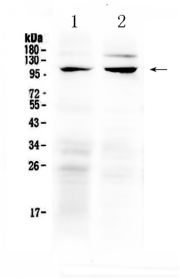
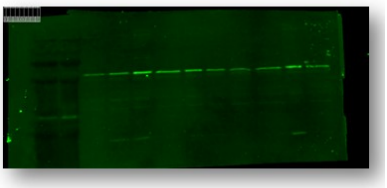
Anti-TRPC6 Antibody Picoband® (A00625) Images



Western blot analysis of TRPC6 using anti-TRPC6 antibody (A00625). 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 ovary tissue lysate,Lane 2: mouse lung tissue lysate. 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-TRPC6 antigen affinity purified polyclonal antibody (Catalog # A00625) 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 TRPC6 at approximately 106KD. The expected band size for TRPC6 is at 106KD.



Western blot analysis of TRPC6 using anti-TRPC6 antibody (A00625). 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-TRPC6 antibody (A00625) 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 TRPC6 at approximately 106 kDa. The expected band size for TRPC6 is at 106 kDa.

3 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.

2. PubMed ID: 20307499, Sun Yh, Li Yq, Feng Sl, Li Bx, Pan Zw, Xu Cq, Li Tt, Yang Bf. Biochem Biophys Res Commun. 2010 Apr 16;394(4):955-61. Doi: 10.1016/J.Bbrc.2010.03.096. Epub 2010 Mar 20. Calcium-Sensing Receptor Activation Contributed To Apoptosis Stimulates Trpc6 C...

3. PubMed ID: 27472391, TRPC1/TRPC3 channels mediate lysophosphatidylcholine-induced apoptosis in cultured human coronary artery smooth muscles cells

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