

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).

Overview

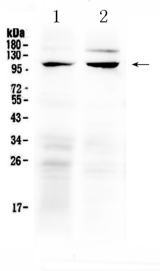
Product Name	Anti-TRPC6 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TRPC6 Antibody Picoband® catalog # A00625. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior 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 Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *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

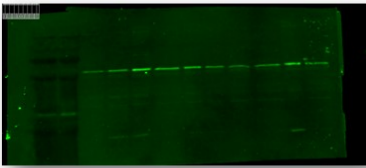
Immunogen	E. coli-derived human TRPC6 recombinant protein (Position: K771-E875). Human TRPC6 shares 82.9% amino acid (aa) sequence identity with mouse TRPC6.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	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

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

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Anti-TRPC6 Antibody

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