BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-TRPV6 Antibody Picoband®

Catalog Number: A02139-2

About TRPV6

TRPV6(Transient Receptor Potential Cation Channel Subfamily V Member 6), also known as ECAC2,CAT1 or CATL, a membrane calcium channel which is responsible for the first step in calcium absorption in the intestine. TRPV6 is a member of the Transient receptor potential(TRP) family of membrane proteins. Using FISH, Peng et al.(2000) mapped the TRPV6 gene to chromosome 7q33-q34. Peng et al.(2000) determined that TRPV6 mediates calcium uptake independent of sodium, chloride, and hydrogen; however, calcium influx was higher at alkaline rather than acidic pH. Functional analysis by Peng et al.(2001) indicated that TRPV5 mediates greater calcium uptake than TRPV6. They concluded that TRPV5 and TRPV6 are calcium-selective channels and share a common ancestral gene.

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Overview

Product Name	Anti-TRPV6 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-TRPV6 Antibody Picoband® catalog # A02139-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q9H1D0

Technical Details

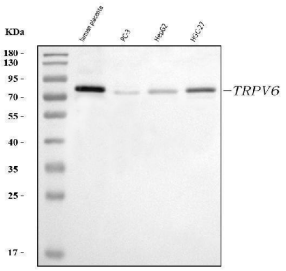
Immunogen	E.coli-derived human TRPV6 recombinant protein (Position: A15-I765).

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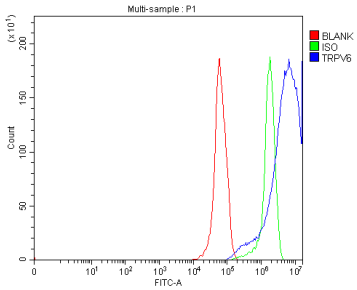
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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Anti-TRPV6 Antibody Picoband® (A02139-2) Images



Western blot analysis of TRPV6 using anti-TRPV6 antibody (A02139-2). 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. Lane 1: human placenta tissue lysates, Lane 2: human PC-3 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human HGC-27 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-TRPV6 antigen affinity purified polyclonal antibody (Catalog # A02139-2) 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 1:5000 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 TRPV6 at approximately 83 kDa. The expected band size for TRPV6 is at 87 kDa.



Flow Cytometry analysis of RT4 cells using anti-TRPV6 antibody (A02139-2). Overlay histogram showing RT4 cells stained with A02139-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-TRPV6 Antibody (A02139-2, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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