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

# Anti-TRPV4 Antibody Picoband®

**Catalog Number:** A00565-2

## About TRPV4

TRPV4 (Transient Receptor Potential Cation Channel Subfamily V Member 4), also known as TRP12, OTRPC4 or VROAC, is a protein that in humans is encoded by the TRPV4 gene. This gene encodes TRPV4, a member of the OSM9-like transient receptor potential channel (OTRPC) subfamily in the transient receptor potential (TRP) superfamily of ion channels. By genomic sequence analysis, Liedtke et al. (2000) mapped the TRPV4 gene to chromosome 12q24.1. They mapped the mouse Trpv4 gene to distal chromosome 5 by radiation hybrid analysis. Wissenbach et al. (2000) found that hypoosmotic conditions rapidly activated TRP12, while hyperosmotic conditions inhibited the activity.Strotmann et al. (2000) showed that OTRPC4 was responsive to changes in extracellular osmolarity in the physiologically relevant range and was expressed in tissues exposed to changing osmotic environments.

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## Overview

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| Product Name | Anti-TRPV4 Antibody Picoband® |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-TRPV4 Antibody Picoband® catalog # A00565-2. Tested in ELISA, 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 | ELISA, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3. |
| 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 | Q9HBA0 |

## Technical Details

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| Immunogen | E.coli-derived human TRPV4 recombinant protein (Position: N66-L871). |

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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, 0.25-0.5ug/ml, Human, Mouse, Rat<br>ELISA, 0.1-0.5ug/ml, - |

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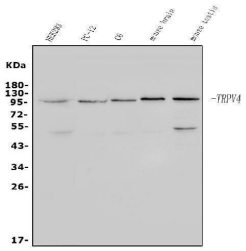
# Anti-TRPV4 Antibody Picoband® (A00565-2) Images




Western blot analysis of TRPV4 using anti-TRPV4 antibody (A00565-2). 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 50ug of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates, Lane 2: rat PC-12 whole cell lysates, Lane 3: rat C6 whole cell lysates, Lane 4: mouse brain tissue lysates, Lane 5: mouse testis 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-TRPV4 antigen affinity purified polyclonal antibody (Catalog # A00565-2) 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 TRPV4 at approximately 98KD. The expected band size for TRPV4 is at 98KD.

Anti-TRPV4 Antibody

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