

Anti-TRPV5 Antibody Picoband™

Catalog Number: PB9518

About TRPV5

Transient receptor potential cation channel subfamily V member 5 is a protein that in humans is encoded by the TRPV5 gene. This gene is a member of the transient receptor family and the TrpV subfamily. The calcium-selective channel encoded by this gene has 6 transmembrane-spanning domains, multiple potential phosphorylation sites, an N-linked glycosylation site, and 5 ANK repeats. And this protein forms homotetramers or heterotetramers and is activated by a low internal calcium level. In addition, TRPV5 is mainly expressed in kidney epithelial cells, where it plays an important role in the reabsorption of Ca²⁺. Genetic deletion of TRPV5 in mice leads to Ca²⁺ loss in the urine, and consequential hyperparathyroidism, and bone loss.

Overview

Product Name	Anti-TRPV5 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-TRPV5 Antibody Picoband™ catalog # PB9518. Tested in WB applications. This antibody reacts with Human, 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	Q9NQA5

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TRPV5, different from the related mouse and rat sequences by one amino acid.
Predicted Reactive Species	Hamster
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, Human, Rat</p>

Anti-TRPV5 Antibody Picoband™ (PB9518) Images

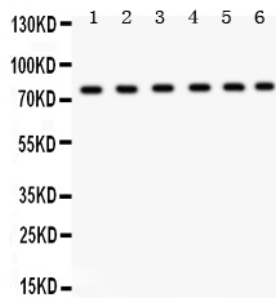


Figure 1. Western blot analysis of TRPV5 using anti-TRPV5 antibody (PB9518).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.

Lane 1: Rat Pancreas Tissue Lysate at 50ug,

Lane 2: Rat Lung Tissue Lysate at 50ug,

Lane 3: Rat Intestine Tissue Lysate at 50ug,

Lane 4: SW620 Whole Cell Lysate at 40ug,

Lane 5: COLO320 Whole Cell Lysate at 40ug,

Lane 6: 293T Whole Cell Lysate at 40ug.

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-TRPV5 antigen affinity purified polyclonal antibody (Catalog # PB9518) 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 TRPV5 at approximately 83 kDa. The

expected band size for TRPV5 is at 83 kDa.

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