

Anti-TRP 7/TRPC7 Antibody Picoband™

Catalog Number: A04658-2

About TRPC7

Transient receptor potential cation channel, subfamily C, member 7, also known as TRPC7, is a human gene encoding a protein of the same name. Using a cosmid/BAC contig, this gene is mapped to chromosome 21q22.3. TRPC7 is the most abundantly expressed long TRPC in peripheral blood and in some blood cell lines. The protein encoded by this gene is a calcium-permeable cation channel that is regulated by free intracellular ADP-ribose. The encoded protein is activated by oxidative stress and confers susceptibility to cell death.

Overview

Product Name	Anti-TRP 7/TRPC7 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-TRP 7/TRPC7 Antibody Picoband™ catalog # A04658-2. Tested in ELISA, WB applications. This antibody reacts with Human, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q9HCX4

Technical Details

Immunogen	E.coli-derived human TRP 7/TRPC7 recombinant protein (Position: R489-I862).
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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Human, Rat

Direct ELISA, 0.1-0.5 µg/ml, Human

Anti-TRP 7/TRPC7 Antibody Picoband™ (A04658-2) Images

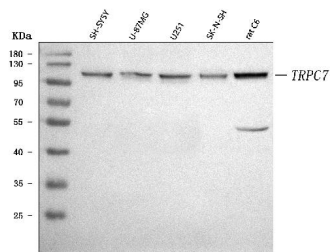


Figure 1. Western blot analysis of TRP 7/TRPC7 using anti-TRP 7/TRPC7 antibody (A04658-2).

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 SH-SY5Y whole cell lysates,

Lane 2: human U-87MG whole cell lysates,

Lane 3: human U251 whole cell lysates,

Lane 4: human SK-N-SH whole cell lysates,

Lane 5: rat C6 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-

TRP 7/TRPC7 antigen affinity purified polyclonal antibody

(Catalog # A04658-2) 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 TRP 7/TRPC7 at

approximately 100 kDa. The expected band size for TRP

7/TRPC7 is at 100 kDa.

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