

Anti-TRPC3 Picoband Antibody
Catalog # ABO10188**Specification**

Anti-TRPC3 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q13507
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Short transient receptor potential channel 3 (TRPC3) detection. Tested with WB in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TRPC3 Picoband Antibody - Additional Information

Gene ID 7222

Other Names

Short transient receptor potential channel 3, TrpC3, Transient receptor protein 3, TRP-3, hTrp-3, hTrp3, TRPC3, TRP3

Calculated MW

96009 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Mouse, Rat, Human

Subcellular Localization

Membrane; Multi-pass membrane protein.

Tissue Specificity

Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis.

Protein Name

Short transient receptor potential channel 3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human TRPC3 recombinant protein (Position: R718-L770). Human TRPC3 shares 96.2% amino acid (aa) sequence identity with both mouse and rat TRPC3.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-TRPC3 Picoband Antibody - Protein Information

Name TRPC3

Synonyms TRP3

Function

Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:8646775, PubMed:9417057, PubMed:9930701, PubMed:20095964, PubMed:30139744, PubMed:29726814, PubMed:35051376). May be operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors (PubMed:8646775).

Cellular Location

Cell membrane; Multi-pass membrane protein

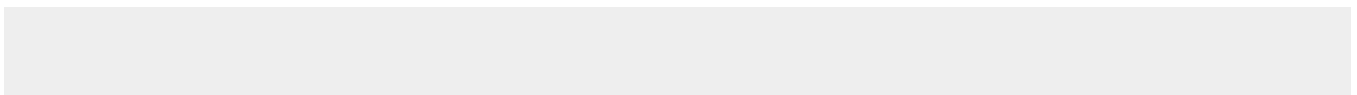
Tissue Location

Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis

Anti-TRPC3 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-TRPC3 Picoband Antibody - Images

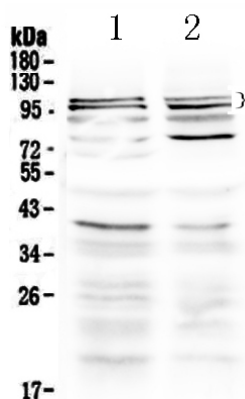


Figure 1. Western blot analysis of TRPC3 using anti-TRPC3 antibody (ABO10188). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain 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-TRPC3 antigen affinity purified polyclonal antibody (Catalog # ABO10188) at 0.5 μ g/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 with Tanon 5200 system. A specific band was detected for TRPC3 at approximately 97KD, 105KD. The expected band size for TRPC3 is at 97KD.

Anti-TRPC3 Picoband Antibody - Background

Short transient receptor potential channel 3 (TrpC3) also known as transient receptor protein 3 (TRP-3) is a protein that in humans is encoded by the TRPC3 gene. The protein encoded by this gene is a membrane protein that can form a non-selective channel permeable to calcium and other cations. The encoded protein appears to be induced to form channels by a receptor tyrosine kinase-activated phosphatidylinositol second messenger system and also by depletion of intracellular calcium stores. Two transcript variants encoding different isoforms have been found for this gene.