

Anti-TRP 7 Picoband Antibody
Catalog # ABO11963**Specification**

Anti-TRP 7 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9HCX4
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Short transient receptor potential channel 7 (TRPC7) detection. Tested with WB in Human; Mouse.

Reconstitution

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

Anti-TRP 7 Picoband Antibody - Additional Information

Gene ID 57113

Other Names

Short transient receptor potential channel 7, TrpC7, Transient receptor protein 7, TRP-7, hTRP7, TRPC7, TRP7

Calculated MW

99562 MW KDa

Application Details

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

Subcellular Localization

Cell membrane ; Multi-pass membrane protein . Nucleus envelope .

Protein Name

Short transient receptor potential channel 7

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human TRP 7 recombinant protein (Position: K716-I862). Human TRP 7 shares 95% amino acid (aa) sequence identity with mouse TRP 7.

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.

Sequence Similarities

Belongs to the transient receptor (TC 1.A.4) family. STpC subfamily. TRPC7 sub-subfamily.

Anti-TRP 7 Picoband Antibody - Protein Information

Name TRPC7

Synonyms TRP7

Function

Forms a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) (By similarity). May also be activated by intracellular calcium store depletion.

Cellular Location

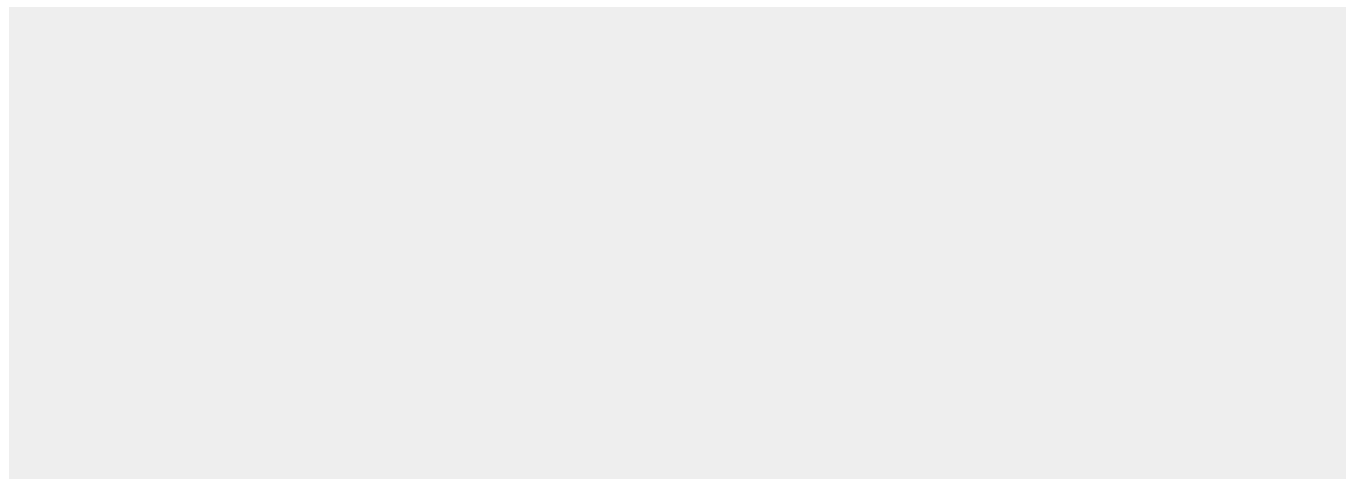
Cell membrane; Multi-pass membrane protein. Nucleus envelope

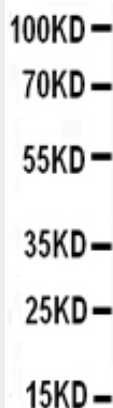
Anti-TRP 7 Picoband Antibody - Protocols

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

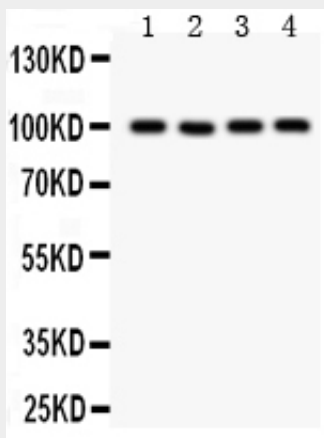
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-TRP 7 Picoband Antibody - Images





Anti- TRP 7 Picoband antibody, ABO11963, Western blottingAll lanes: Anti TRP 7 (ABO11963) at 0.5ug/mlWB: Recombinant Human TRP 7 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



Anti- TRP 7 Picoband antibody, ABO11963, Western blottingAll lanes: Anti TRP 7 (ABO11963) at 0.5ug/mlLane 1: Mouse Brain Tissue Lysate at 50ugLane 2: A549 Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugPredicted bind size: 99KDObserved bind size: 99KD

Anti-TRP 7 Picoband Antibody - Background

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.