

Anti-TRPC5 Picoband Antibody

Catalog # ABO11962

Specification

Anti-TRPC5 Picoband Antibody - Product Information

Application WB
Primary Accession Q9UL62
Host Reactivity Human
Clonality Polyclonal
Format Lyophilized

Description

Rabbit IgG polyclonal antibody for Short transient receptor potential channel 5(TRPC5) detection. Tested with WB in Human.

Reconstitution

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

Anti-TRPC5 Picoband Antibody - Additional Information

Gene ID 7224

Other Names

Short transient receptor potential channel 5, TrpC5, Transient receptor protein 5, TRP-5, hTRP-5, hTRP5, TRPC5, TRP5

Calculated MW 111412 MW KDa

Application Details

Western blot, 0.1-0.5 μg/ml, Human

Subcellular Localization

Cell membrane; Multi-pass membrane protein.

Tissue Specificity

Expressed in brain with higher levels in fetal brain. Found in cerebellum and occipital pole. .

Protein Name

Short transient receptor potential channel 5

Contents

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

Immunogen

E.coli-derived human TRPC5 recombinant protein (Position: K684-L973). Human TRPC5 shares 90% amino acid (aa) sequence identity with mouse TRPC5.

Purification



Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, 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. STrpC subfamily. TRPC5 sub-subfamily.

Anti-TRPC5 Picoband Antibody - Protein Information

Name TRPC5

Synonyms TRP5

Function

Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:16284075, PubMed:38959890, PubMed:37137991). Mediates calcium-dependent phosphatidylserine externalization and apoptosis in neurons via its association with PLSCR1 (By similarity). Acts on distinct neuronal populations in the hypothalamus to regulate innate behaviors including feeding, anxiety (flight/fight/fear), socialization, and maternal care (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in brain with higher levels in fetal brain. Found in cerebellum and occipital pole

Anti-TRPC5 Picoband Antibody - Protocols

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

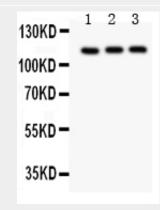
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-TRPC5 Picoband Antibody - Images





Anti- TRPC5 Picoband antibody, ABO11962, Western blottingAll lanes: Anti TRPC5 (ABO11962) at 0.5ug/mlWB: Recombinant Human TRPC5 Protein 0.5ngPredicted bind size: 50KDObserved bind size: 50KD



Anti- TRPC5 Picoband antibody, ABO11962, Western blottingAll lanes: Anti TRPC5 (ABO11962) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: U87 Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 111KDObserved bind size: 111KD

Anti-TRPC5 Picoband Antibody - Background

Short transient receptor potential channel 5 (TrpC5), also known as TRP-5, is a protein that in humans is encoded by the TRPC5 gene. TRPC5 is subtype of the TRPC family of mammalian transient receptor potential ion channels. It is mapped to Xq23. The predicted 973-amino acid TRPC5 protein has a calculated molecular mass of 111.5 kD. It contains the characteristic 8 predicted transmembrane domains (TM1 through TM8), including a pore region (TM7) between TM6 and TM8. TRPC5 is a multi-pass membrane protein and is thought to form a receptor-activated non-selective calcium permeant cation channel, and it is a candidate for the regulation of calcium waves. The protein is active alone or as a heteromultimeric assembly with TRPC1, TRPC3, and TRPC4.