

Anti-TRPC5 Picoband Antibody
Catalog # ABO11962**Specification**

Anti-TRPC5 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9UL62
Host	Rabbit
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). Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Has also been shown to be calcium-selective (By similarity). May also be activated by intracellular calcium store depletion. 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

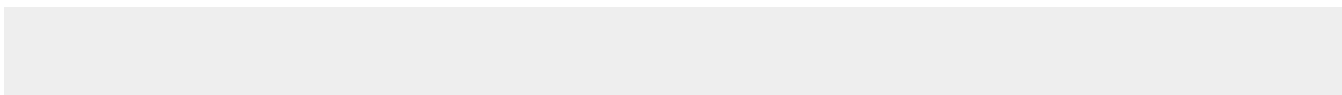
Tissue Location

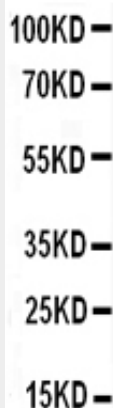
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Anti-TRPC5 Picoband Antibody - Protocols

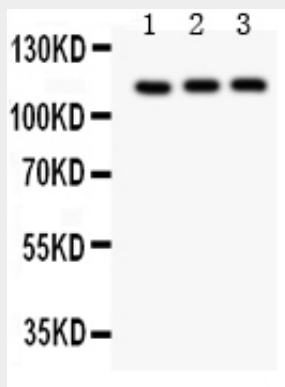
Provided below are standard protocols that you may find useful for product applications.

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