

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

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q9UL62</a> |
| 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<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**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 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. TRPC5 sub-subfamily.

### Anti-TRPC5 Picoband Antibody - Protein Information

**Name** TRPC5

**Synonyms** TRP5

#### Function

Thought to form 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. 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).

#### Cellular Location

Cell membrane; Multi-pass membrane protein

#### Tissue Location

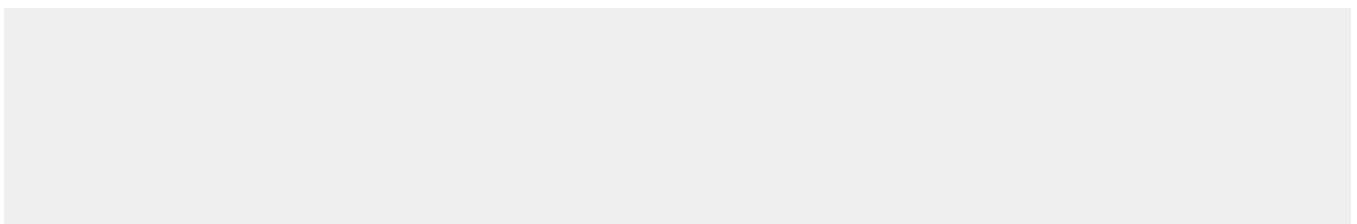
Expressed in brain with higher levels in fetal brain. Found in cerebellum and occipital pole

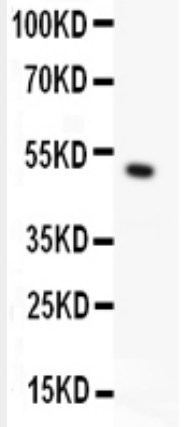
### Anti-TRPC5 Picoband Antibody - Protocols

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

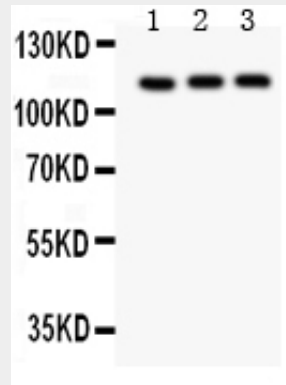
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-TRPC5 Picoband Antibody - Images





Anti- TRPC5 Picoband antibody, ABO11962, Western blotting All lanes: Anti TRPC5 (ABO11962) at 0.5ug/ml WB: Recombinant Human TRPC5 Protein 0.5ng Predicted bind size: 50KD Observed bind size: 50KD



Anti- TRPC5 Picoband antibody, ABO11962, Western blotting All lanes: Anti TRPC5 (ABO11962) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: U87 Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 111KD Observed 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.