

Anti-TRPC5 Picoband Antibody

Catalog # ABO11962

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.

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
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. .
Source	Eukaryota
Protein Name	Short transient receptor potential channel 5
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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

Sequence Similarities	freezing and thawing. Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC5 sub-subfamily.
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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

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.

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



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