

Datasheet for ABIN3043493
anti-TRPC5 antibody (AA 684-973)



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2 Images

Overview

Quantity:	100 µg
Target:	TRPC5
Binding Specificity:	AA 684-973
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPC5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-TRPC5 Antibody Picoband®
Immunogen:	E.coli-derived human TRPC5 recombinant protein (Position: K684-L973). Human TRPC5 shares 90% amino acid (aa) sequence identity with mouse TRPC5.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-TRPC5 Antibody Picoband® (ABIN3043493). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	TRPC5
Alternative Name:	TRPC5 (TRPC5 Products)
Background:	<p>Synonyms: Short transient receptor potential channel 5, TrpC5, Transient receptor protein 5, TRP-5, hTRP-5, hTRP5, TRPC5, TRP5,</p> <p>Tissue Specificity: Expressed in brain with higher levels in fetal brain. Found in cerebellum and occipital pole. .</p> <p>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.</p> <p>Sequence Similarities: Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC5 sub-subfamily.</p>
Molecular Weight:	111 kDa
Gene ID:	7224

Application Details

Application Notes:	<p>Western blot, 0.1-0.5 µg/mL, Human</p> <p>1. "Entrez Gene: transient receptor potential cation channel" 2. Greka, A., Navarro, B., Oancea, E., Duggan, A., Clapham, D. E. TRPC5 is a regulator of hippocampal neurite length and growth cone morphology. Nature Neurosci. 6: 837-845, 2003. 3. Sossey-Alaoui, K., Lyon, J. A., Jones, L., Abidi, F. E., Hartung, A. J., Hane, B., Schwartz, C. E., Stevenson, R. E., Srivastava, A. K. Molecular cloning and characterization of TRPC5 (HTRP5), the human homologue of a mouse brain receptor-activated capacitative Ca(2+) entry channel. Genomics 60: 330-340, 1999.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

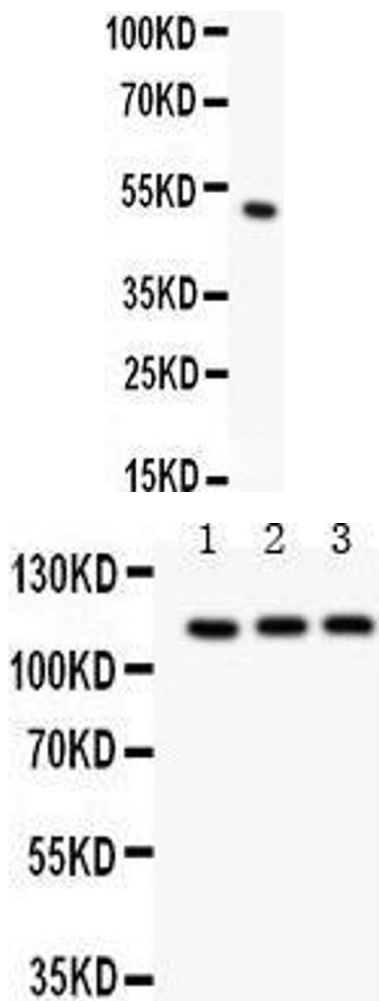
Handling

Format:	Lyophilized
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Handling

Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti- TRPC5 Picoband antibody, Western blotting
All lanes: Anti TRPC5 at 0.5ug/ml WB: Recombinant Human TRPC5 Protein 0.5ng Predicted bind size: 50KD Observed bind size: 50KD

Western Blotting

Image 2. Anti- TRPC5 Picoband antibody, Western blotting
All lanes: Anti TRPC5 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