10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-TRPC3 Picoband Antibody

Catalog # ABO10188

Product Information

Application	WB
Primary Accession	Q13507
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Short transient receptor potential channel 3(TRPC3) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7222
Other Names	Short transient receptor potential channel 3, TrpC3, Transient receptor protein 3, TRP-3, hTrp-3, hTrp3, TRPC3, TRP3
Calculated MW	105538
Application Details	Western blot, 0.1-0.5 □g/ml, Mouse, Rat, Human
Subcellular Localization	Membrane; Multi-pass membrane protein.
Tissue Specificity	Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis.
Source	Eukaryota
Protein Name	Short transient receptor potential channel 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human TRPC3 recombinant protein (Position: R718-L770). Human TRPC3 shares 96.2% amino acid (aa) sequence identity with both mouse and rat TRPC3.
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.

Protein Information

Name	TRPC3
Synonyms	TRP3
Function	Forms a receptor-activated non-selective calcium permeant cation channel (PubMed:29726814, PubMed:30139744, PubMed:35051376, PubMed:9417057, PubMed:9930701, PubMed:10611319).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed predominantly in brain and at much lower levels in ovary, colon, small intestine, lung, prostate, placenta and testis

Background

Short transient receptor potential channel 3 (TrpC3) also known as transient receptor protein 3 (TRP-3) is a protein that in humans is encoded by the TRPC3 gene. The protein encoded by this gene is a membrane protein that can form a non-selective channel permeable to calcium and other cations. The encoded protein appears to be induced to form channels by a receptor tyrosine kinase-activated phosphatidylinositol second messenger system and also by depletion of intracellular calcium stores. Two transcript variants encoding different isoforms have been found for this gene.

Images

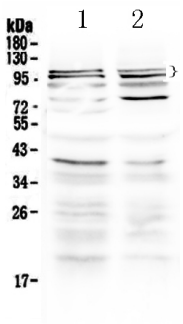


Figure 1. Western blot analysis of TRPC3 using anti-TRPC3 antibody (ABO10188). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TRPC3 antigen affinity purified polyclonal antibody (Catalog # ABO10188) at 0.5 □¼g/mL overnight at 4 □°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TRPC3 at approximately 97KD, 105KD. The expected band size for TRPC3 is at 97KD.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.