

Anti-TRPC3 Antibody
Catalog # ABO11063

Specification

Anti-TRPC3 Antibody - Product Information

Application	WB, IHC
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, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TRPC3 Antibody - 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

96009 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

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.

Protein Name

Short transient receptor potential channel 3(TrpC3)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human TRPC3(836-851aa HSFNSILNQPTRYQQI), identical to the related rat and mouse sequences.

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. TRPC3 sub-subfamily.

Anti-TRPC3 Antibody - 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

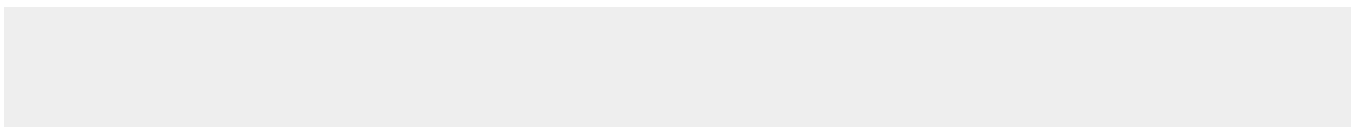
Tissue Location

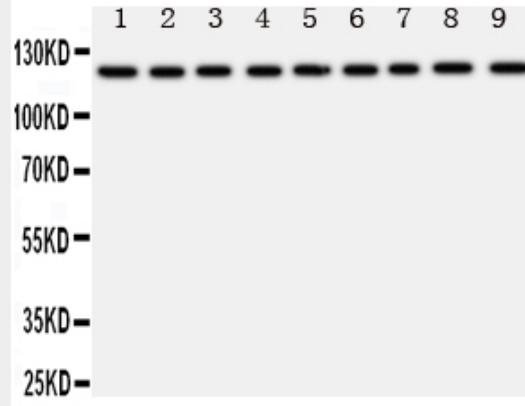
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Anti-TRPC3 Antibody - Protocols

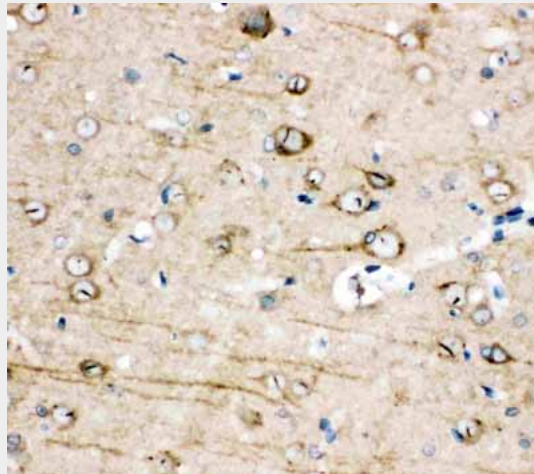
Provided below are standard protocols that you may find useful for product applications.

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

Anti-TRPC3 Antibody - Images



Anti-TRPC3 antibody, ABO11063, Western blotting
 All lanes: Anti TRPC3 (ABO11063) at 0.5ug/ml
 Lane 1: Rat Liver Tissue Lysate at 50ug
 Lane 2: Rat Lung Tissue Lysate at 50ug
 Lane 3: Rat Intestine Tissue Lysate at 50ug
 Lane 4: Rat Ovary Tissue Lysate at 50ug
 Lane 5: U87 Whole Cell Lysate at 40ug
 Lane 6: A549 Whole Cell Lysate at 40ug
 Lane 7: COLO320 Whole Cell Lysate at 40ug
 Lane 8: SW620 Whole Cell Lysate at 40ug
 Lane 9: HELA Whole Cell Lysate at 40ug
 Predicted bind size: 97KD
 Observed bind size: 120KD



Anti-TRPC3 antibody, ABO11063, IHC(P) IHC(P): Rat Brain Tissue

Anti-TRPC3 Antibody - 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.