Datasheet for ABIN7043823

anti-TRPC5 antibody (Intracellular)

2 Images

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Overview

Quantity:	25 µL
Target:	TRPC5
Binding Specificity:	AA 959-973, Intracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPC5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunochromatography (IC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to TRPC5 Channel
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)HKWGDGQEEQVTTRL, corresponding to amino acid residues 959-973 of human TRPC5
Isotype:	IgG
Specificity:	Intracellular, C-terminus
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Rat,mouse,rabbit - identical
Characteristics:	Anti-TRPC5 Antibody (ABIN7043823, ABIN7043974 and ABIN7043975) is a highly specific

Product Details

	antibody directed against an epitope of the human protein. The antibody can be used in western blot, immunoprecipitation, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize TRPC5 from mouse, rat, and human samples.
Purification:	Affinity purified on immobilized antigen.
Grade:	KO Validated

Target Details

Target:	TRPC5
Alternative Name:	TRPC5 (TRPC5 Products)
Background:	Short transient receptor potential channel 5, Transient receptor protein 5, TRP5,The Transient Receptor Potential (TRP) superfamily is one of the largest ion channel families and consists of diverse groups of proteins. In mammals about 28 genes encode the TRP ion channel subunits. The mammalian TRP superfamily comprises six subfamilies known as the TRPC (canonical), TRPV (vanilloid), TRPM (melastatin), TRPML (mucolipins), TRPP (polycystin) and the TRPA (ANKTM1) ion channels.1-4The TRPC subfamily consists of seven proteins named TRPC1 to 7 which can be further divided into four subgroups based on their sequence homology and functional similarities: 1) TRPC1 2) TRPC4 and TRPC5 3) TRPC3, TRPC6, TRPC7 4) TRPC2.2,5 They are highly expressed in the central nervous system and to a lesser extent in peripheral tissues.TRPC5 channels are assumed to form components of store operated channels in some cell types such as salivary gland cells, endothelial cells and vascular smooth muscle cells, and can be activated either by calcium store depletion or by GPCR stimulation pathways.6 Alternative names: TRPC5, Short transient receptor potential channel 5, Transient receptor protein 5, TRP5
Gene ID:	7224
NCBI Accession:	NM_012471
UniProt:	Q9UL62

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: 1:200

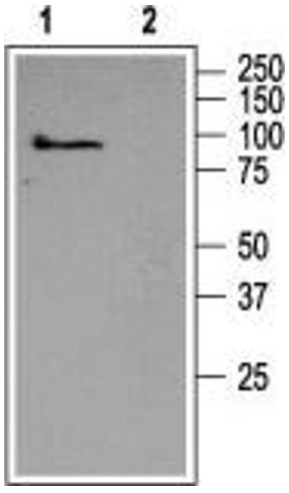
Application Details

Comment:	Cited Application: IHC Negative Control: (ABIN7237428) Blocking Peptide: (ABIN7237428)
Restrictions:	For Research Use only

Handling

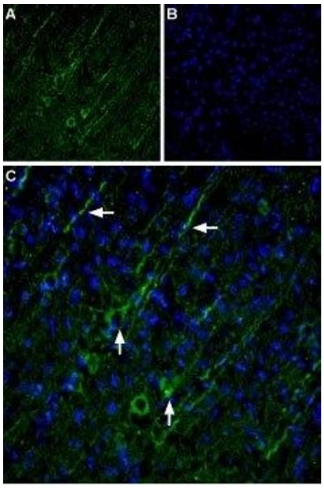
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of rat brain membranes: - 1. Anti-TRPC5 Antibody (ABIN7043823, ABIN7043974 and ABIN7043975), (1:200). 2. Anti-TRPC5 Antibody, preincubated with TRPC5 Blocking Peptide (#BLP-CC020).



Immunohistochemistry

Image 2. Expression of TRPC5 in rat cortex - Immunohistochemical staining of rat cortex using Anti-TRPC5 Antibody (ABIN7043823, ABIN7043974 and ABIN7043975). A. TRPC5 immunoreactivity (green) appears in pyramidal shaped neuronal soma (vertical arrows) and apical dendrites (horizontal arrows). B. Nuclear staining using DAPI as the counterstain (blue). C. Merged image of A and B.

