Datasheet for ABIN6656403

anti-TRPC7 antibody (C-Term)

2 Images

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Overview

Quantity:	100 µg
Target:	TRPC7
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TRPC7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	TRPC7 Antibody
Immunogen:	TrpC7 Antibody was produced in mice by repeated immunizations raised against a synthetic peptide corresponding to a near c-terminus region of human TrpC7.
Clone:	N64A-36
Isotype:	IgG1
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with TrpC7 from human, mouse, and rat based on 100 % homology with the immunizing sequence.
Purification:	Anti-TrpC7 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	TRPC7
Alternative Name:	TrpC7 (TRPC7 Products)
Background:	Synonyms: TRP7, KNP3, TRPM2, transient receptor potential cation channel subfamily C member 7, Transient receptor protein 7 Background: Transient receptor potential cation channel, subfamily C, member 7, also known as TRPC7, is a non-selective cation channel that is directly activated by DAG. TrpC7 shows constitutive activity and susceptibility to negative regulartion by extracellular Ca2+. Because of this, TrpC7 plays an important role in the Ca2+ signaling pathway. TrpC7 is also expressed abundantly in the heart, and combined with its ability to act as a Ca2+ channel, TrpC7 might contribute to the process of heart failure. Gene Name: TRPC7
Gene ID:	57113
NCBI Accession:	NP_065122
UniProt:	Q9HCX4

Application Details

Application Notes:	Immunoprecipitation_Dilution: User Optimized Immunohistochemistry_Dilution: 1:1000 IF_Microscopy_Dilution: 1:100 Western_Blot_Dilution: 1:1000
Comment:	Anti-TrpC7 Antibody is tested for use in WB, IHC, IF, and IP. Expect a band approximately ~100kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

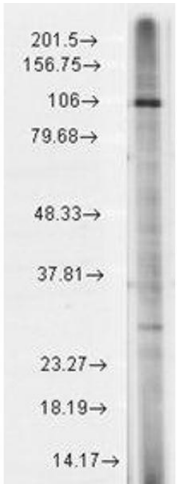
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide

Handling

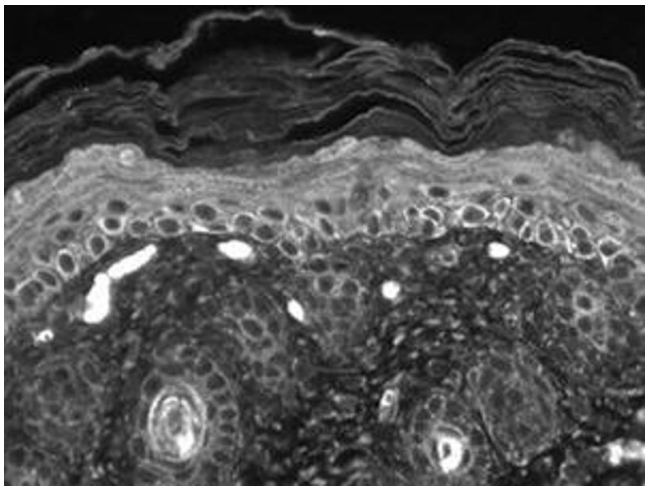
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. TrpC7 Western Blot. Western Blot of mouse anti-TRPC7 antibody. Lane 1: Rat brain membrane lysates. Primary antibody: TrpC7 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 99.5kDa/100kD. Other band(s): none.



Immunohistochemistry

Image 2. TrpC7 Immunohistochemistry. Immunohistochemistry of mouse anti-TrpC7 antibody. Tissue: Mouse Back skin sections. Fixation: N/A. Antigen Retrieval: not required. Primary Antibody: TrpC7 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Cell Membrane. Staining: TrpC4 as white signal.