Datasheet for ABIN2485419

anti-TRPC7 antibody (AA 845-862) (Atto 390)

5 Images

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Overview

Quantity:	100 µg
Target:	TRPC7
Binding Specificity:	AA 845-862
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TRPC7 antibody is conjugated to Atto 390
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

Product Details

Immunogen:	Synthetic peptide amino acids 845-862 of human TRPC7
Clone:	N64A-36 (Formerly S64A-36)
Isotype:	IgG1
Specificity:	Detects ~100 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	TRPC7

Target Details

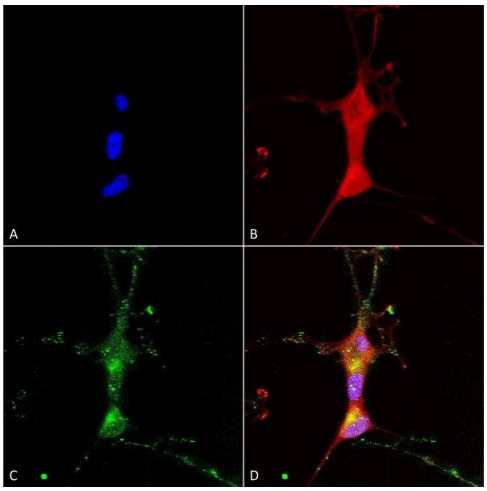
Alternative Name:	TRPC7 (TRPC7 Products)
Background:	Transient receptor potential cation channel, subfamily C, member 7, also known as TRPC7, is a non-selective cation channel that is directly activated by DAG. TrpC7 shows constitutive activity and susceptibility to negative regulation by extracellular Ca2+. Because of this, TrpC7 plays an important role in the Ca2+ signaling pathway (1). 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 (2).
Gene ID:	57113
NCBI Accession:	NP_065122
UniProt:	Q9HCX4

Application Details

Application Notes:	• WB (1:1000) • IHC (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2485419 was sufficient for detection of TrpC7 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

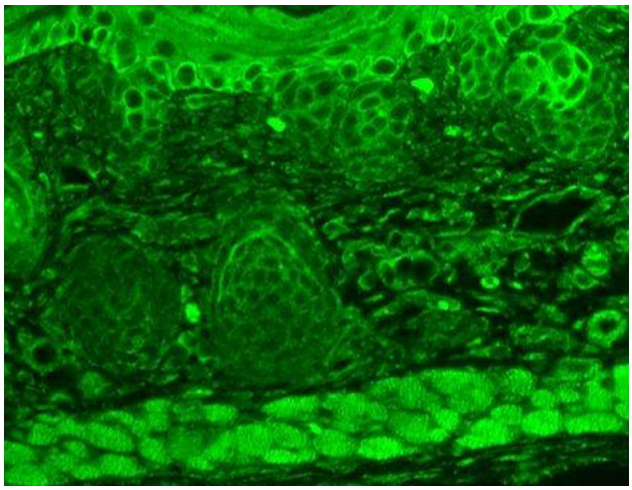
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



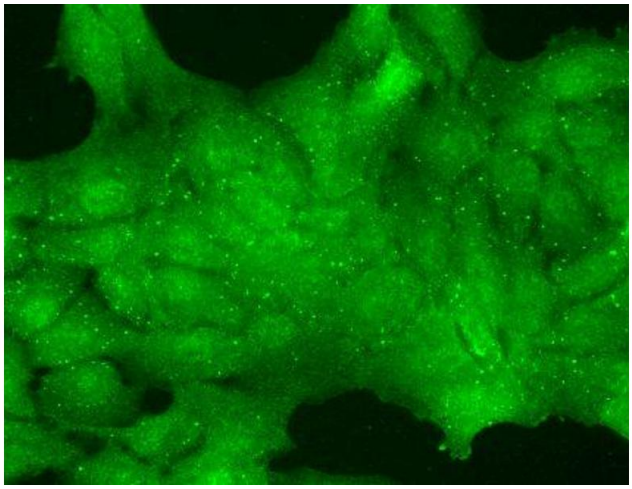
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC7 Monoclonal Antibody, Clone N64A/36 (ABIN2485419). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody (ABIN2485419) at 1:100 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) TrpC7 Antibody (D) Composite.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36 . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Everything.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36 . Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Nuclear staining .

Please check the product details page for more images. Overall 5 images are available for ABIN2485419.