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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-TrpC7 Antibody [S64A-36]

Mouse Anti-Human TrpC7 Monoclonal IgG1
Catalog No. SMC-343



Discovery through partnership | Excellence through quality

Overview

Product Name

TrpC7 Antibody

Description

Mouse Anti-Human TrpC7 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF, IP

Antibody Dilution

WB (1:1000), IHC (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Synthetic peptide amino acids 845-862 of human TRPC7

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S64A-36

Isotype

IgG1

Specificity

Detects ~100kDa.

Cite This Product

Mouse Anti-Human TRPC7 Monoclonal, Clone S64A-36 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-343)

Certificate Of Analysis

1 µg/ml of SMC-343 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.

Biological Description

Alternative Names

TRP7 Antibody, KNP3 Antibody, TRPM2 Antibody, transient receptor potential cation channel subfamily C member 7 Antibody

Research Areas

Cell Signaling, Ion Channels, Neuroscience, Transient Receptor Potential Channels

Cellular Localization

Membrane

Accession Number

NP_065122.1

Gene ID

57113

Swiss Prot

Q9HCX4

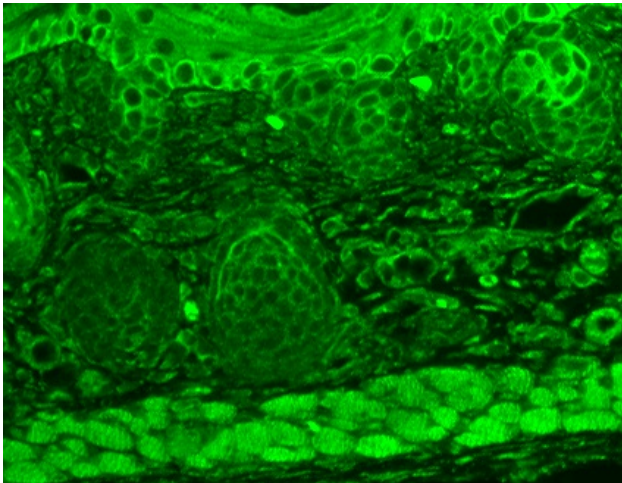
Scientific Background

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).

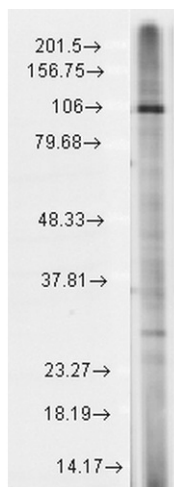
References

1. Numaga T., Wakamori M., and Mori Y. (2007) *Handb Exp Pharmacol.* 179: 143-151.
 2. Satoh S., et al. (2007) *Mol Cell Biochem.* 294(1-2): 205-215.
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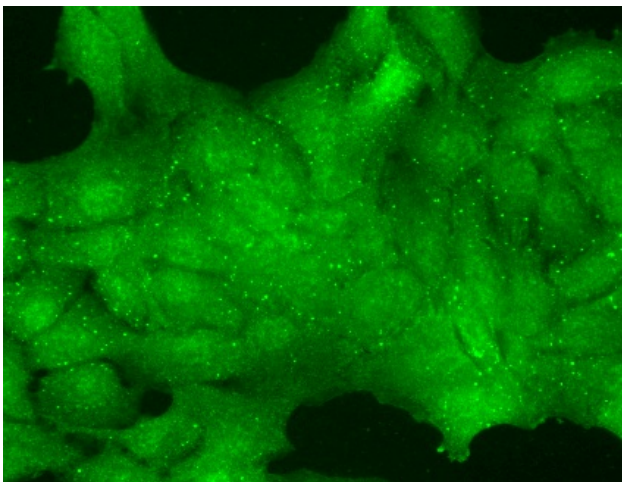
Product Images



Immunohistochemistry analysis using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36 (SMC-343). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody (SMC-343) 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.



Western Blot analysis of Rat brain membrane lysate showing detection of TrpC7 protein using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36 (SMC-343). Load: 15 μ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody (SMC-343) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC7 Monoclonal Antibody, Clone S64A-36 (SMC-343). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-TrpC7 Monoclonal Antibody (SMC-343) 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 .

Product Citations (2)

Other Citations

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Human **Applications:** Antibody Microarray

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PubMed ID: **Reactivity:** Mouse **Applications:** Antibody Microarray

Reviews

There are no reviews yet.