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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Anti-KCNQ1 Antibody [S37A-10]

Mouse Anti-Human KCNQ1 Monoclonal IgG1
Catalog No. SMC-307



Discovery through partnership | Excellence through quality

Overview

Product Name

KCNQ1 Antibody

Description

Mouse Anti-Human KCNQ1 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat, Hamster

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

Fusion protein amino acids 2-101 of human KCNQ1

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

S37A-10

Isotype

IgG1

Specificity

Detects ~75kDa.

Cite This Product

Mouse Anti-Human KCNQ1 Monoclonal, Clone S37A-10 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-307)

Certificate Of Analysis

1 µg/ml of SMC-307 was sufficient for detection of KCNQ1 in 10 µg of COS-1 cell lysate transiently expressing KCNQ1 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

ATFB1 Antibody, ATFB3 Antibody, FLJ26167 Antibody, IKs producing slow voltage-gated potassium channel subunit alpha Antibody, IKs producing slow voltage-gated potassium channel subunit alpha KvLQT1 Antibody, Jervell and Lange-Nielsen syndrome 1 Antibody, JLNS1 Antibody, KCNA8 Antibody, KCNA9 Antibody, KCNQ1 Antibody, KCNQ1_HUMAN Antibody, kidney and cardiac voltage dependend K+ channel Antibody, KQT-like 1 Antibody, Kv1.9 Antibody, Kv7.1 Antibody, KVLQT1 Antibody, long (electrocardiographic) QT syndrome Antibody, Ward-Romano syndrome 1 Antibody, LQT Antibody, LQT1 Antibody, Potassium voltage-gated channel subfamily KQT member 1 Antibody, potassium voltage-gated channel KQT-like subfamily member 1 Antibody, RWS Antibody, slow delayed rectifier channel subunit Antibody, SQT2 Antibody, Voltage-gated potassium channel subunit Kv7.1 Antibody, WRS Antibody

Research Areas

Cardiovascular System, Heart, Ion Channels, Neuroscience, Potassium Channels, Voltage-Gated Potassium Channels

Cellular Localization

Cell membrane, Cytoplasmic vesicle membrane

Accession Number

NP_000209.2

Gene ID

3784

Swiss Prot

P51787

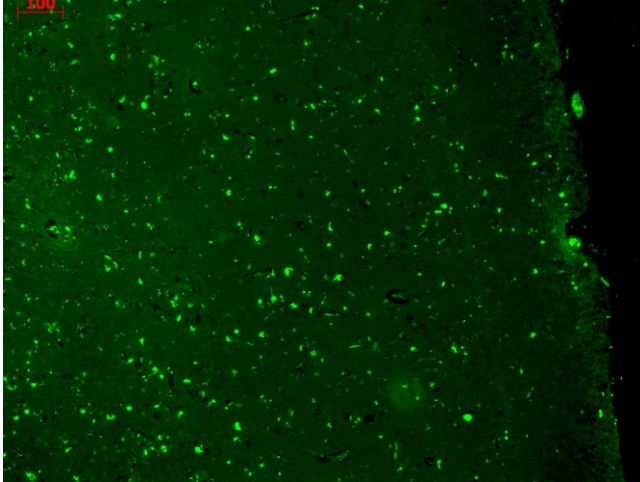
Scientific Background

Kv7.1 (KvLQT1) is a potassium channel protein coded for by the gene KCNQ1. Kv7.1 is present in the cell membranes of cardiac muscle tissue and in inner ear neurons (1) among other tissues. In the cardiac cells, Kv7.1 mediates the IKs (or slow delayed rectifying K+) current that contributes to the repolarization of the cell, terminating the cardiac action potential and thereby the

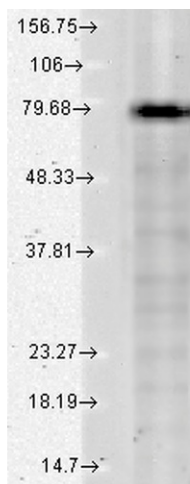
References

1. Lang F., Vallon V., Knipper M., Wagenmann P. (2007) Am J Physiol. 293(4): C1187-1208.
2. Kurokawa J., et al. (2009) Channels (Austin). 3(1): 16-24.
3. Silva J., and Rudy Y. (2005) Circulation. 112(10): 1384-1391.

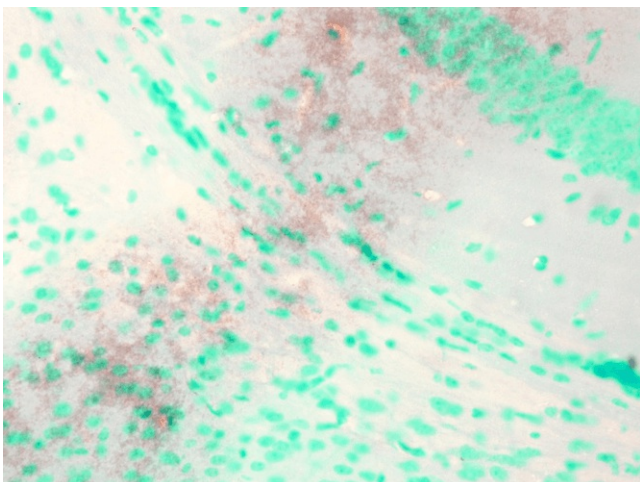
Product Images



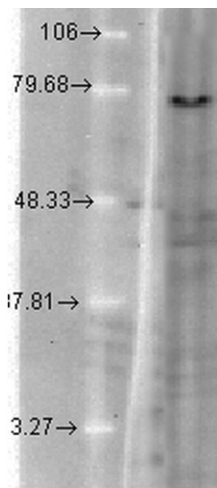
Immunohistochemistry analysis using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone S37A-10 (SMC-307). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody (SMC-307) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Western Blot analysis of Human Cell lysates showing detection of KCNQ1 protein using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone S37A-10 (SMC-307). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody (SMC-307) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunohistochemistry analysis using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone S37A-10 (SMC-307). Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody (SMC-307) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at RT.



Western Blot analysis of hamster T-CHO cell lysate showing detection of KCNQ1 protein using Mouse Anti-KCNQ1 Monoclonal Antibody, Clone S37A-10 (SMC-307). Load: 15 μ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-KCNQ1 Monoclonal Antibody (SMC-307) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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.