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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-KCNQ4 Antibody [S43-6]

Mouse Anti-Human KCNQ4 Monoclonal IgG1
Catalog No. SMC-309



Discovery through partnership | Excellence through quality

Overview

Product Name

KCNQ4 Antibody

Description

Mouse Anti-Human KCNQ4 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

Fusion protein amino acids 2-77 of human KCNQ4

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

S43-6

Isotype

IgG1

Specificity

Detects ~77kDa.

Cite This Product

Mouse Anti-Human KCNQ4 Monoclonal, Clone S43-6 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-309)

Certificate Of Analysis

1 µg/ml of SMC-309 was sufficient for detection of KCNQ4 in 10 µg of COS-1 cell lysate transiently expressing KCNQ4 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

DFNA 2 antibody, DFNA2 antibody, KCNQ 4 antibody, Kcnq4 antibody, KCNQ4_HUMAN antibody, KQT like 4 antibody, KQT-like 4 antibody, KV7.4 antibody, Potassium channel KQT like 4 antibody, Potassium channel subunit alpha KvLQT4 antibody, Potassium voltage gated channel KQT like protein 4 antibody, Potassium voltage gated channel KQT like subfamily member 4 antibody, Potassium voltage gated channel subfamily KQT member 4 antibody, Potassium voltage-gated channel subfamily KQT member 4 antibody, Voltage gated potassium channel subunit Kv7.4 antibody, Voltage-gated potassium channel subunit Kv7.4 antibody

Research Areas

Cancer, Ion Channels, Neuroscience, Potassium Channels, Voltage-Gated Potassium Channels

Cellular Localization

Basal Cell Membrane, Plasma Membrane

Accession Number

NP_004691.2

Gene ID

9132

Swiss Prot

P56696

Scientific Background

The protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability (1), particularly in sensory cells of the cochlea (2). The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug (3).

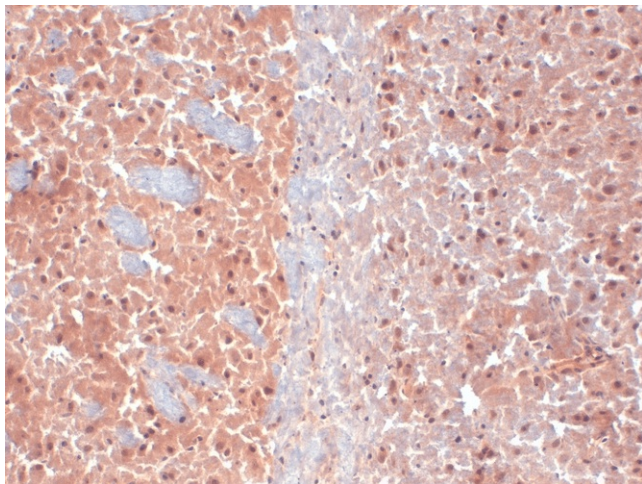
References

1. Hernandez C.C., Zaiko O., Tolstykh G.P., Shapiro M.S. (2008) J Physiol. 586(7): 1811-1821.

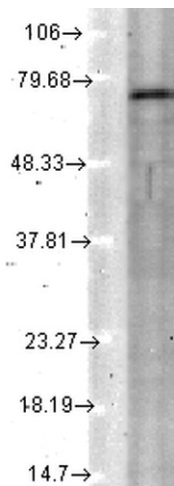
2. Kharkovets T., et al. (2006) EMBO J. 25(3): 642-652.

3. Tatulian L., Delmas P., Abogadie F.C., Brown D.A. (2001) J Neuroscience. 21(15): 5535-5545.

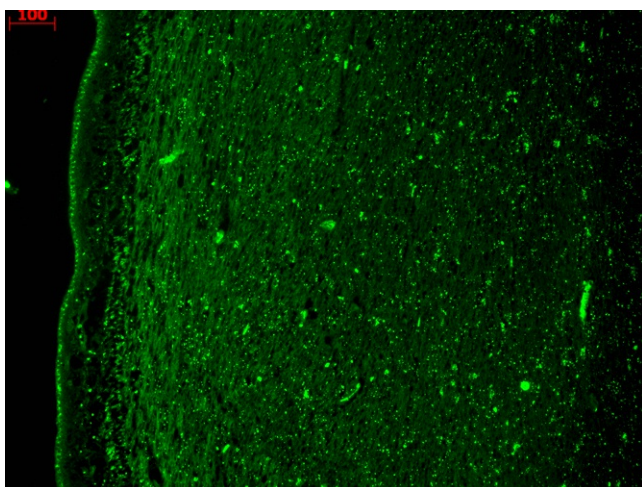
Product Images



Immunohistochemistry analysis using Mouse Anti-KCNQ4 Monoclonal Antibody, Clone S43-6 (SMC-309). Tissue: frozen brain section. Species: mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-KCNQ4 Monoclonal Antibody (SMC-309) 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 μ l for 5 minutes at RT.



Western Blot analysis of Rat tissue lysate showing detection of KCNQ4 protein using Mouse Anti-KCNQ4 Monoclonal Antibody, Clone S43-6 (SMC-309). Load: 15 μ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-KCNQ4 Monoclonal Antibody (SMC-309) 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-KCNQ4 Monoclonal Antibody, Clone S43-6 (SMC-309). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-KCNQ4 Monoclonal Antibody (SMC-309) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 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.