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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HCN4 Antibody [S114-10]

Mouse Anti-Rat HCN4 Monoclonal IgG1
Catalog No. SMC-320



Discovery through partnership | Excellence through quality

Overview

Product Name

HCN4 Antibody

Description

Mouse Anti-Rat HCN4 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat, Rabbit

Applications

WB, IHC, ICC/IF

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

Rat

Immunogen

Fusion protein amino acids 1-019-1198 (c-terminus) of rat HCN4

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

S114-10

Isotype

IgG1

Specificity

Detects ~130kDa. No cross-reactivity against other HCNs.

Cite This Product

Mouse Anti-Rat HCN4 Monoclonal, Clone S114-10 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-320)

Certificate Of Analysis

1 µg/ml of SMC-320 was sufficient for detection of HCN4 in 10 µg of COS cell lysate transiently transfected with HCN4 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

Hyperpolarization activated cyclic nucleotide gated potassium channel 4 Antibody, HCN 4 Antibody, Potassium/sodium hyperpolarization activated cyclic nucleotide gated channel 4 Antibody

Research Areas

Cardiovascular System, Cyclic Nucleotide-Gated Ion Channels, Heart, Ion Channels, Neuroscience

Cellular Localization

Membrane

Accession Number

NP_067690.1

Gene ID

59266

Swiss Prot

Q9JKA7

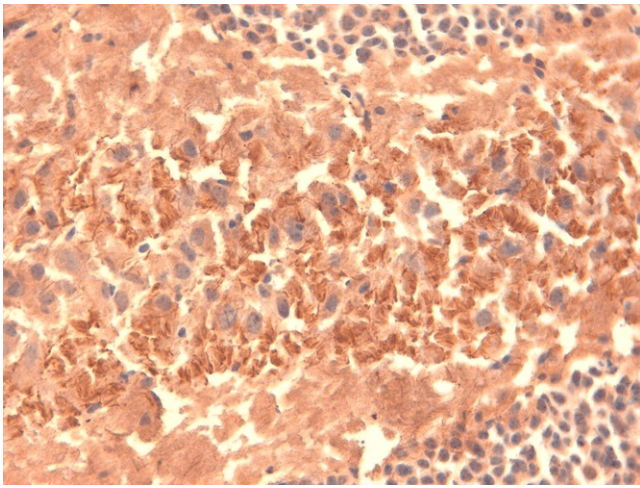
Scientific Background

Hyperpolarization-activated cation channels of the HCN gene family contribute to spontaneous rhythmic activity in both the heart and brain (1).

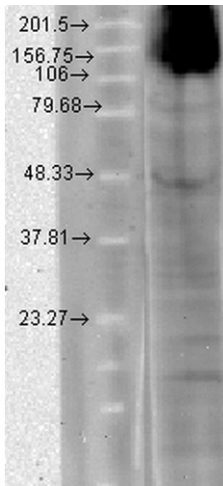
References

1. Zong X., et al. (2005) J Biol Chem. 280(40): 34224-34232

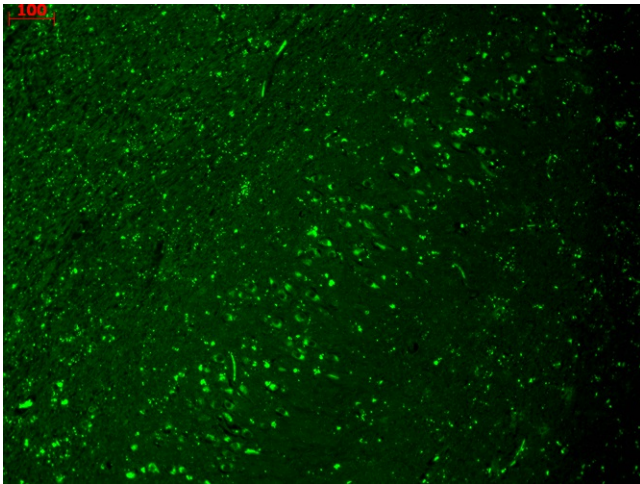
Product Images



Immunohistochemistry analysis using Mouse Anti-HCN4 Monoclonal Antibody, Clone S114-10 (SMC-320). Tissue: frozen brain section. Species: mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (SMC-320) 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 Human T-HEK cell lysate showing detection of HCN4 protein using Mouse Anti-HCN4 Monoclonal Antibody, Clone S114-10 (SMC-320). Load: 15 μ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (SMC-320) 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-HCN4 Monoclonal Antibody, Clone S114-10 (SMC-320). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-HCN4 Monoclonal Antibody (SMC-320) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

Product Citations (3)

Immunohistochemistry

Innervation of sinoatrial nodal cells in the rabbit.

Inokaitis, H. et al. (2016) Annals of Anatomy. 205:113121

PubMed ID: **Reactivity:** Rabbit **Applications:** Immunohistochemistry

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

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:** Mouse **Applications:** Antibody Microarray

Reviews

Based on validation through cited publications.



StressMarq Biosciences

June 14, 2016: