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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Nav1.8 Antibody [S134-12]

Mouse Anti-Rat Nav1.8 Monoclonal IgG2a
Catalog No. SMC-342

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

Nav1.8 Antibody

Description

Mouse Anti-Rat Nav1.8 Monoclonal IgG2a

Species Reactivity

Human, Monkey, Mouse, Rat

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 1724-1956 of rat Nav1.8

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

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S134-12

Isotype

IgG2a

Specificity

Detects ~220kDa. No cross reactivity against other Nav channels.

Cite This Product

Mouse Anti-Rat Nav1.8 Monoclonal, Clone S134-12 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-342)

Certificate Of Analysis

1 µg/ml of SMC-342 was sufficient for detection of Nav1.8 in 10 µg of COS cell lysate transiently expressing Nav1.8 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

mPN3 antibody, Peripheral nerve sodium channel 3 antibody, Pn3 (gene name) antibody, PN3 antibody, Scn10a antibody, Sensory neuron sodium channel antibody, Sns (gene name) antibody, SNS antibody, Sodium channel protein type 10 subunit alpha antibody, Sodium channel protein type X alpha subunit antibody, Voltage-gated sodium channel alpha subunit Nav1.8 antibody

Research Areas

Ion Channels, Neuroscience, Sodium Channels, Voltage-Gated Sodium Channels

Cellular Localization

Membrane

Accession Number

NP_058943.1

Gene ID

29571

Swiss Prot

Q62968

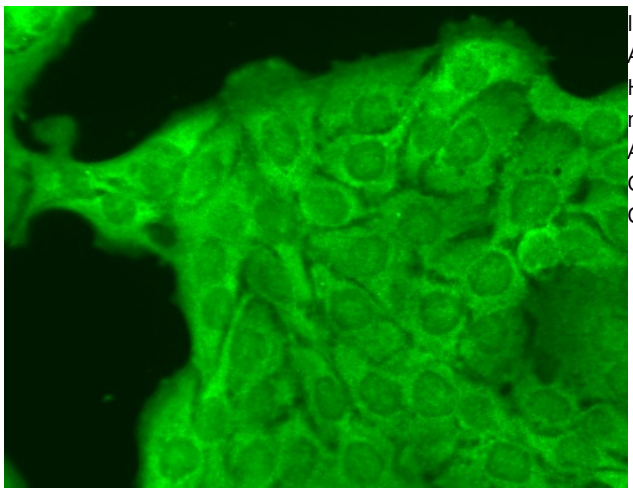
Scientific Background

Nav1.8 is a voltage-gated sodium channel and plays a critical role in the generation and conduction of action potentials and is thus important for electrical signaling by most excitable cells. Therapeutically, the association of pain insensitivity with the loss of function of a certain sodium channel may have implications. Since Nav1.8 is not present in cardiac muscle or neurons in the central nervous system, blockers of Nav1.8 will not have direct action on these cells and thus can have less side effects than current pain medications. By performing more studies, there is a possibility to develop a new generation of drugs that can reduce the pain intensity in animals.

References

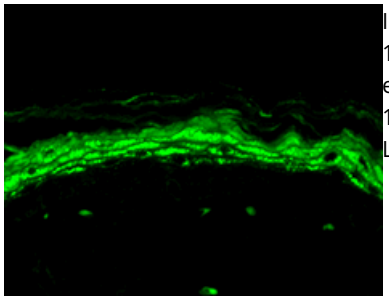
1. Dray A. (2008) Br. J. Anaesth. 101(1): 48-58.
2. Dray A., Read S.J (2007) Arthritis Res. Ther. 9(3): 212.
3. Samuels M.E., teMorshe R.H., Lynch M.E., Drenth J.P. (2008) Mol Pain. 4: 21.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134-12 (SMC-342). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody (SMC-342) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Cytoplasmic staining and some dull nuclear staining.

Western Blot analysis of Monkey COS transient cell lysate showing detection of Nav1.8 protein using Mouse Anti-Nav1.8 Monoclonal Antibody, Clone S134-12 (SMC-342). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody (SMC-342) 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-Nav1.8 Monoclonal Antibody, Clone S134-12 (SMC-342). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.8 Monoclonal Antibody (SMC-342) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Heavy filaggrinlike staining, lower epidermal cells have some staining.

Product Citations (3)

Immunocytochemistry/Immunofluorescence

Effects of HIV-1 Tat on Enteric Neuropathogenesis.

Ngwainmbi, J. et al. (2014) J Neurosci. 34(43):14243-51.

PubMed ID: 25339738 **Reactivity:** Mouse **Applications:** Immunocytochemistry/Immunofluorescence

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: