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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Nav1.7 Antibody [S68-6]

Mouse Anti-Human Nav1.7 Monoclonal IgG1
Catalog No. SMC-314



Discovery through partnership | Excellence through quality

Overview

Product Name

Nav1.7 Antibody

Description

Mouse Anti-Human Nav1.7 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat, Hamster

Applications

WB, 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 1751-1946 (C-terminus) of human Nav1.7

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

S68-6

Isotype

IgG1

Specificity

Detects ~230kDa. No cross-reactivity against other Nav channels.

Cite This Product

Mouse Anti-Human Nav1.7 Monoclonal, Clone S68-6 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-314)

Certificate Of Analysis

1 µg/ml of SMC-314 was sufficient for detection of Nav1.7 in 10 µg of HEK-293 cell lysate transiently expressing Nav1.7 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

ETHA Antibody, hNE Na Antibody, NE NA Antibody, PN1 Antibody, SCN9A Antibody, voltage gated sodium channel subunit alpha Nav1 Antibody, peripheral sodium channel 1 Antibody, neuroendocrine sodium channel Antibody

Research Areas

Cancer, Cell Signaling, Ion Channels, Neuroscience, Sodium Channels, Voltage-Gated Sodium Channels

Cellular Localization

Membrane, Synapse

Accession Number

NP_002968.1

Gene ID

6335

Swiss Prot

Q15858

Scientific Background

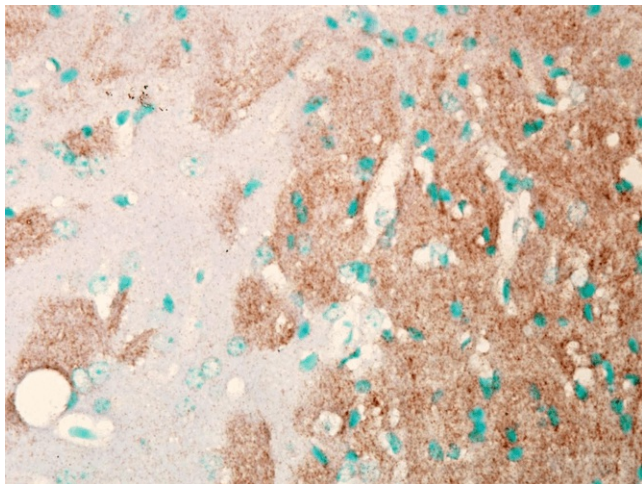
Nav1.7 is a voltage-gated sodium channel and plays a critical role in the generation and conduction of action potentials and is thus important for electrical signaling by most excitable cells. Therapeutically, the association of pain insensitivity with the loss of function of a certain sodium channel may have implications. Since Nav1.7 is not present in cardiac muscle or neurons in the central nervous system, blockers of Nav1.7 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 (1-3).

References

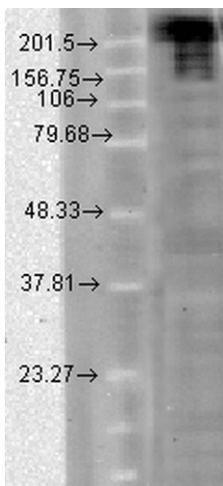
1. Dray A. (2008) Br. J. Anaesth. 101(1): 48-58.

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.

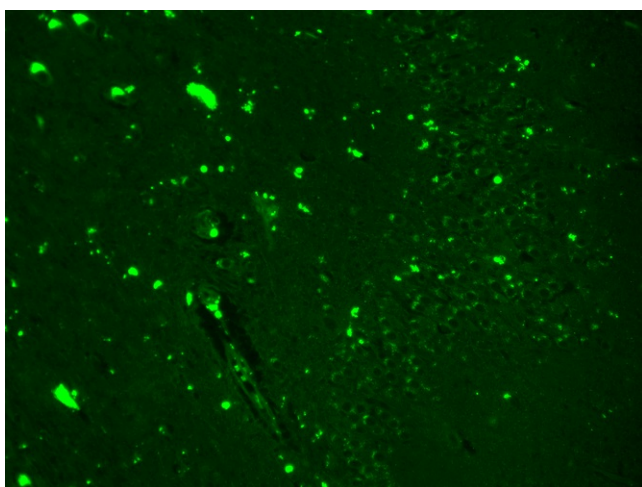
Product Images



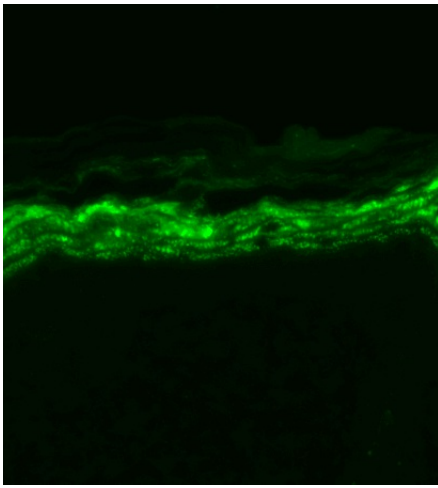
Immunohistochemistry analysis using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone S68-6 (SMC-314). Tissue: Brain Slice. Species: Mouse. Fixation: Frozen sections. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (SMC-314) at 1:1000. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown). Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain.



Western Blot analysis of hamster CHO cells showing detection of Nav1.7 Sodium Channel protein using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone S68-6 (SMC-314). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (SMC-314) 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-Nav1.7 Sodium Channel Monoclonal Antibody, Clone S68-6 (SMC-314). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (SMC-314) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Immunohistochemistry analysis using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone S68-6 (SMC-314). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (SMC-314) 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)

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: