Datasheet for ABIN361773

anti-SCN9A antibody (AA 1751-1946)

5 Images | 1 Publication

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Overview

Quantity:	100 µg
Target:	SCN9A
Binding Specificity:	AA 1751-1946
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SCN9A antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC), Antibody Array (AA)

Product Details

Immunogen:	Fusion protein amino acids 1751-1946 (C-terminus) of human Nav1.7
Clone:	N68-6 (Formerly S68-6)
Isotype:	IgG1
Specificity:	Detects ~230 kDa. No cross-reactivity against other Nav channels.
Cross-Reactivity:	Hamster, Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	SCN9A

Target Details

Alternative Name:	Nav1.7 (SCN9A Products)
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).
Gene ID:	6335
NCBI Accession:	NP_002968
UniProt:	Q15858

Application Details

Application Notes:	• WB (1:1000) • IHC (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN361773 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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

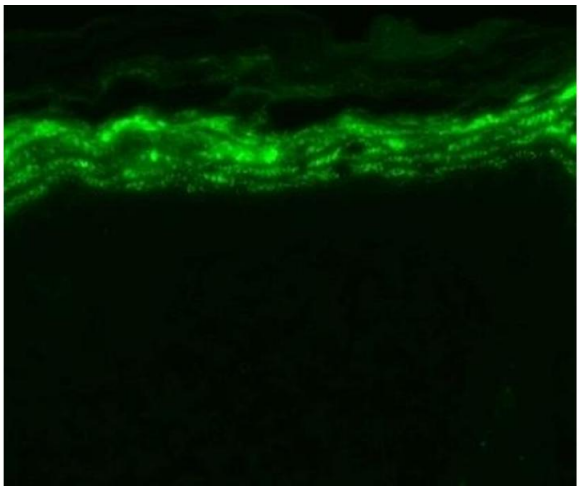
Handling

Storage Comment:	-20°C

Publications

Product cited in:	Ngwainmbi, De, Smith, El-Hage, Fitting, Kang, Dewey, Hauser, Akbarali: "Effects of HIV-1 Tat on enteric neuropathogenesis." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 34, Issue 43, pp. 14243-51, (2014) (PubMed).

Images



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody, Clone N68/6 (ABIN361773). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Nav1.7 Sodium Channel Monoclonal Antibody (ABIN361773) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

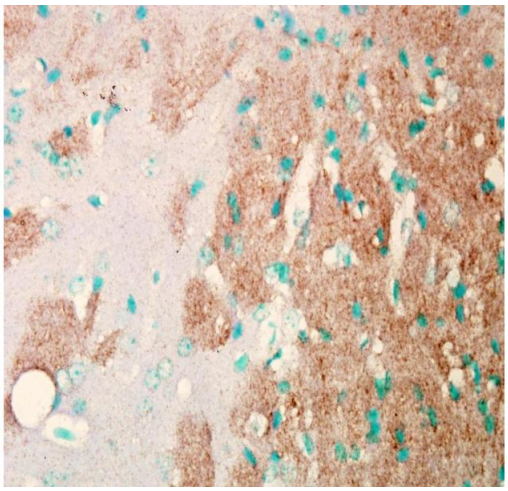


Image 2. Nav1.7 (S68-6), Mouse brain tissue, Amplifier

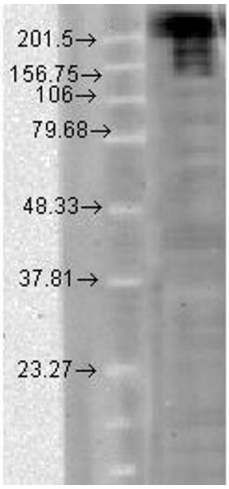


Image 3. Nav1.7 (S68-6) in T-CHO

Please check the product details page for more images. Overall 5 images are available for ABIN361773.