

Datasheet for ABIN6658124  
**anti-Nav1.8 antibody (C-Term)**

## 2 Images

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## Overview

Quantity:	100 µg
Target:	Nav1.8 (SCN10A)
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Nav1.8 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Fluorescence Microscopy (FM)

## Product Details

Immunogen:	Immunogen: Nav1.8 Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding near the cytoplasmic C-terminus region of rat Nav1.8. Immunogen Type: Recombinant Protein
Clone:	S134-12
Isotype:	IgG2a
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-NAV1.8 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with NAV1.8 from human, mouse, and rat based on 100% homology with the immunizing sequence. No cross reactivity against other Nav channels. Cross-reactivity with NAV1.8 from other sources has not been determined. Ion Channels research.

## Target Details

Target:	Nav1.8 (SCN10A)
Alternative Name:	NAV1.8 ( <a href="#">SCN10A Products</a> )
Background:	<p>Synonyms: PN3, Na(V)1.8, Scn10a, Sodium channel protein type 10 subunit alpha, Peripheral nerve sodium channel 3, Sensory neuron sodium channel, Sodium channel protein type X subunit alpha, Voltage-gated sodium channel subunit alpha Nav1.8</p> <p>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.</p> <p>Gene Name: Scn10a</p>
Gene ID:	29571
NCBI Accession:	<a href="#">NP_058943</a>
UniProt:	<a href="#">Q62968</a>

## Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 0.1-1.0 µg/mL</p> <p>Application Note: Anti-NAV1.8 Antibody is suitable for use in WB, IHC and IF microscopy. Expect a band approximately ~220 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.</p> <p>Western Blot Dilution: 1-10 µg/mL</p> <p>IF Microscopy Dilution: 1.0-10 µg/mL</p>
Restrictions:	For Research Use only

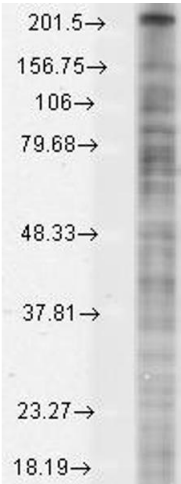
## Handling

Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 50 % (v/v) Glycerol</p> <p>0.09 % (w/v) Sodium Azide</p>

## Handling

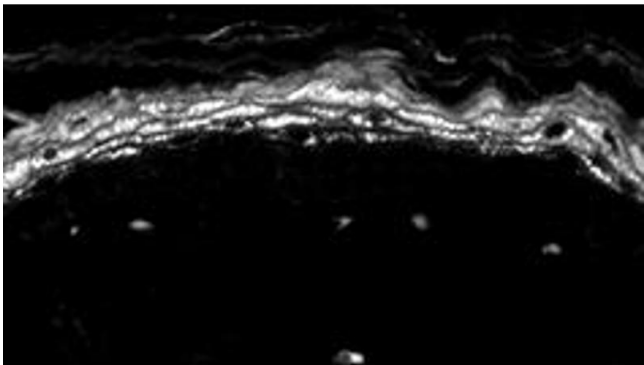
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

## Images



### Western Blotting

**Image 1.** Nav1.8 Western Blot. Western Blot of mouse anti-Nav1.7 antibody. Lane 1: CHO cells. Primary antibody: Nav1.7 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Biotin overnight 4°C. Predicted/Observed size: 226.3 kDa/230kD. Other band(s): none.



### Immunohistochemistry

**Image 2.** Nav1.8 Immunohistochemistry. Immunohistochemistry of mouse anti-Nav1.7 antibody. Tissue: Mouse brain tissues. Primary Antibody: Nav1.7 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Membrane. Staining: Nav1.7 as brown signal.