

## Product Datasheet

Anti-Nav1.1 Na<sup>+</sup> Channel Antibody FL650 Conjugate

## Overview

<b>Catalog #</b>	75-023-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	K74/71
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Human, Mouse, Non-Human Primate, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1929-2009 (cytoplasmic C-terminus) of rat Nav1.1 (accession number P04774) produced recombinantly in E. Coli
<b>Molecular Weight</b>	220 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-023-FL650, RRID: AB_2939155

## Details

<b>Target Description</b>	Nav1.1 Na <sup>+</sup> channel (sodium channel, voltage-gated, type I, alpha subunit/ SCN1A) is a member of voltage-gated sodium ion channel subunit family. It is encoded by gene Scn1a in human. The channel switches between open and close conformation in response to the voltage difference across the membrane. Nav1.1 Na <sup>+</sup> channel is a sodium selective channel that maintains Na <sup>+</sup> homeostasis by allowing Na <sup>+</sup> ions to pass in accordance of their electrochemical gradient. The protein plays an important role in the release of neurotransmitters from the neurons. Therefore, Nav1.1 Na <sup>+</sup> channel is involved in the perception of mechanical pain due to the activation of somatosensory neurons without the involvement of inflammation. Mutation of the gene encoding for Nav1.1 Na <sup>+</sup> channel is one of the main cause of epilepsy and febrile seizures.
<b>Specificity</b>	No cross-reactivity with Nav1.2, Nav1.3 and Nav1.6
<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.

**Quality Control Tests**

Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

**Storage**

Aliquot and store at  $\leq -20^{\circ}\text{C}$  for long term storage. For short term storage, store at  $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

**Our Guarantee**

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