

## Product Datasheet

## Anti-Nav1.4 Sodium Channel Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-424-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N255/38
<b>Size</b>	200 $\mu$ L
<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>	Mouse and Rat
<b>Immunogen</b>	Fusion protein amino acids 269-386 (Repeat I external pore between S5 and S6) of rat Nav1.4 (accession number P15390) produced recombinantly in E. Coli
<b>Molecular Weight</b>	>200 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-424-FL550, RRID: AB_2940409

## Details

<b>Target Description</b>	Sodium channel subunit beta-1 or Navbeta1 Na <sup>+</sup> channel is encoded by SCN1B. Voltage gated sodium channels are made up of an alpha (pore forming) subunit and 1 or 2 beta subunits. SCN1B has two splice variants. Nav $\beta$ 1 is a transmembrane protein and acts as a regulatory subunit in excitable membranes and modulates the kinetics of channel inactivation. It is found expressed in brain, spinal cord, heart and skeletal muscle. Diseases associated with SCN1B include several types of epilepsy.
<b>Specificity</b>	No cross-reactivity reported
<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.
<b>Quality Control Tests</b>	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.

**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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