

## Product Datasheet

Anti-Nav1.7 Na<sup>+</sup> Channel Antibody FL490 Conjugate

## Overview

<b>Catalog #</b>	75-103-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N68/6
<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, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1751-1946 (cytoplasmic C-terminus) of human Nav1.7 (accession number Q15858) produced recombinantly in E. Coli
<b>Molecular Weight</b>	230 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-103-FL490, RRID: AB_2939384

## Details

<b>Target Description</b>	Nav1.7 subunit alpha, or SCN9A, is a member of the voltage gated sodium channel family. It is expressed at the terminal ends of sensory neurons in the dorsal root ganglion (DRG) and in trigeminal and sympathetic ganglion neurons. A major function of Nav1.7 is the generation and conduction of action potentials in nociceptors, or “pain receptors” and thus involved in pain sensation. Changes in Nav1.7 expression have been linked to primary erythralgia, primary erythralgia, and Congenital insensitivity to pain
<b>Specificity</b>	No cross-reactivity against other Nav channels
<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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