

## Product Datasheet

Anti-Nav1.6 Na<sup>+</sup> Channel Antibody FL550 Conjugate

## Overview

<b>Catalog #</b>	75-026-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	K87A/10
<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>	Synthetic peptide 459-476 (intracellular interdomain loop I-II) of rat Nav1.6 (accession number O88420)
<b>Molecular Weight</b>	<200 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-026-FL550, RRID: AB_2939161

## Details

<b>Target Description</b>	Nav1.6 Na <sup>+</sup> channel (sodium channel, voltage-gated, type 8, alpha subunit/ SCN8A) is a member of voltage-gated sodium ion channel subunit family. It is encoded by gene Scn8a in human. The channel switches between open and close conformation in response to the voltage difference across the membrane. Nav1.6 Na <sup>+</sup> channel is located at the nodes of Ranvier. It heavily participates in the regulation of nerve conduction velocity. It has been shown that Nav1.6 Na <sup>+</sup> channel loss in rodents induces paralysis due to the failure of the neuromuscular junction (Wagnon et al., 2016).
<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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