

Product Datasheet

Anti-Nav1.1 Na⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-023-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	K74/71
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, Non-Human Primate, and Rat
Immunogen	Fusion protein amino acids 1929-2009 (cytoplasmic C-terminus) of rat Nav1.1 (accession number P04774) produced recombinantly in E. Coli
Molecular Weight	220 kDa
Cite this Antibody	Antibodies Inc Cat# 75-023-FL490, RRID: AB_2939152

Details

Target Description	Nav1.1 Na ⁺ 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 ⁺ channel is a sodium selective channel that maintains Na ⁺ homeostasis by allowing Na ⁺ 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 ⁺ 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 ⁺ channel is one of the main cause of epilepsy and febrile seizures.
Specificity	No cross-reactivity with Nav1.2, Nav1.3 and Nav1.6
Purification Method	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

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

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