

Product Datasheet

Anti-Nav1.2 Na⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-024-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2a
Clone Number	K69/3
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	Feline, Human, Mouse, Non-Human Primate, and Rat
Immunogen	Fusion protein amino acids 1882-2005 (cytoplasmic C-terminus) of rat Nav1.2 (accession number P04775) produced recombinantly in E. Coli
Molecular Weight	~250 kDa
Cite this Antibody	Antibodies Inc Cat# 75-024-FL490, RRID: AB_2939156

Details

Target Description	Nav1.2 Na ⁺ channel (sodium channel, voltage-gated, type II, alpha subunit/ SCN2A) is a member of voltage-gated sodium ion channel subunit family. It is encoded by gene Scn2a 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. Nav1.2 Na ⁺ channel is implicated in the regulation of hippocampal replay, whose waves ripples (SPW-R) condition memories. It is heterogeneously expressed in the brain, and mutations in this gene have been linked to several cases of seizures, autism and bipolar disorders.
Specificity	Lack of cross-reactivity against Nav1.1, Nav1.3, Nav1.6 verified
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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