

Product Datasheet

Anti-Navbeta3 Na⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-391-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2b
Clone Number	N396/29
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
Species Reactivity	Mouse and Rat
Immunogen	Fusion protein amino acids 1-215 (full-length) of rat Navbeta3 (accession number Q9JK00) produced recombinantly in E. Coli
Molecular Weight	40 kDa
Cite this Antibody	Antibodies Inc Cat# 75-391-FL490, RRID: AB_2940284

Details

Target Description	Sodium channel subunit beta-3 or Navbeta3 Na ⁺ channel is encoded by SCN3B. Voltage gated sodium channels are made up of an alpha (pore forming) subunit and 1 or 2 beta subunits. Navβ3 is a transmembrane protein and acts as a regulatory subunit in excitable membranes and modulates the kinetics of channel. Nabβ3 is expressed in many tissues, including the central and peripheral nervous system, heart and pancreatic endocrine cells. Diseases associated with SCN3A include forms of Epilepsy and Encephalopathy.
Specificity	Does not cross-react with Navbeta1, Navbeta2 or Navbeta4
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.

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