

Product Datasheet

Anti-Navbeta4 Na⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-198-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N168/6
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	Mouse and Rat
Immunogen	Fusion protein amino acids 184-228 (cytoplasmic C-terminus) of rat Navbeta4 (accession number Q7M730) produced recombinantly in E. Coli
Molecular Weight	25 kDa
Cite this Antibody	Antibodies Inc Cat# 75-198-FL490, RRID: AB_2939732

Details

Target Description	Sodium channel subunit beta-4 or Navbeta4 Na ⁺ channel is encoded by SCN4B. Voltage gated sodium channels are made up of an alpha (pore forming) subunit and 1 or 2 beta subunits. Navβ4 is a transmembrane protein and acts as a regulatory subunit in excitable membranes and modulates the kinetics of channel. Navβ4 is expressed in many tissues, including the brain (dorsal root ganglia), spinal cord, heart, and skeletal muscle. Defects in this gene are a cause of long QT syndrome type 10 and Familial Atrial Fibrillation.
Specificity	No cross-reactivity reported
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 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.

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