

Product Datasheet

Anti-Navbeta2 Na⁺ Channel Antibody FL594 Conjugate

Overview

Catalog #	75-379-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2b
Clone Number	N395/68
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 1-215 (full-length) of mouse Navbeta2 (accession number Q56A07) produced recombinantly in E. Coli
Molecular Weight	40 kDa
Cite this Antibody	Antibodies Inc Cat# 75-379-FL594, RRID: AB_2940262

Details

Target Description	Sodium channel subunit beta-2 or Navbeta2 Na ⁺ channel is encoded by SCN2B. Voltage gated sodium channels are made up of an alpha (pore forming) subunit and 1 or 2 beta subunits. Navβ2 is a transmembrane protein and acts as a regulatory subunit in excitable membranes and modulates the kinetics of channel. Navβ2 is expressed in many tissues, including the central and peripheral nervous system, heart, and skeletal muscle. Diseases associated with this gene include Familial Atrial Fibrillation
Specificity	Does not cross-react with Navbeta1, Navbeta3 or Navbeta4 (based on KO validation results)
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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