

Product Datasheet

Anti-Cavbeta2 Ca²⁺ Channel Antibody FL594 Conjugate

Overview

Catalog #	75-065-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N8B/1
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, and Rat
Immunogen	Synthetic peptide amino acids 189-205 of rat Cav2 (RSPKPSANSVTSPHSKE; accession number AOA0G2JSZ0)
Molecular Weight	78 kDa
Cite this Antibody	Antibodies Inc Cat# 75-065-FL594, RRID: AB_2939274

Details

Target Description	Voltage-dependent L-type calcium channel subunit beta-2 or Cav β2 is encoded by the gene CACNB2. Cavβ2 is a cytoplasmic subunit of L type voltage-sensitive calcium channels. These channels facilitate entry of calcium ions into excitable cells and are involved in a variety of calcium dependent processes, including neurotransmitter release, muscle contraction, and gene expression. Cav β2 is expressed in heart and brain, and lung. Mutations in this gene are associated with Brugada syndrome.
Specificity	Does not cross-react with Cavβ1, Cavβ3, Cavβ4
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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