

Product Datasheet

Anti-Cav β 3 Calcium Channel Antibody FL594 Conjugate

Overview

Catalog #	75-472-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2b
Clone Number	N473/36
Size	200 μ L
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	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 20-149 (N-terminus) of human Cavbeta3 (accession number P54284)
Molecular Weight	60 kDa
Cite this Antibody	Antibodies Inc Cat# 75-472-FL594, RRID: AB_2940578

Details

Target Description	Voltage-dependent L-type calcium channel subunit beta-3 or Cav β 3 is encoded by the gene CACNB3. Cav β 3 is a cytoplasmic subunit of 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 β 3 is expressed in brain, colon and ovary. Diseases associated with this gene include Lambert-Eaton Myasthenic Syndrome.
Specificity	Does not cross-react with Cavbeta1, Cavbeta2 or Cavbeta4
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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