

Product Datasheet

Anti-Cavbeta1 Ca²⁺ Channel Antibody FL490 Conjugate

Overview

Catalog #	75-052-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2a
Clone Number	N7/18
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, Non-Human Primate, and Rat
Immunogen	Synthetic peptide amino acids 19-34 of rat Cav1 (PMEVFDPSQGKYSKR; accession number NP_059042)
Molecular Weight	80, 55 kDa
Cite this Antibody	Antibodies Inc Cat# 75-052-FL490, RRID: AB_2939228

Details

Target Description	Voltage-dependent L-type calcium channel subunit beta-1 or Cav β1 is encoded by the gene CACNB1. Cavβ1 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. Cavβ1 serves to regulate the activity of L-type calcium channels. Cavβ1 expressed in brain, heart, spleen, central nervous system and neuroblastoma cells. Diseases associated with CACNB1 include Malignant Hyperthermia and epileptic encephalopathy.
Specificity	Does not cross-react with Cavβ2, 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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As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

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