

Product Datasheet

Anti-Cavbeta4 Ca²⁺ Channel Antibody FL594 Conjugate

Overview

Catalog #	75-054-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N10/7
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, Pig, and Rat
Immunogen	Synthetic peptide amino acids 458-474 of rat Cav4 (DENYHNERARKSRNRLS; accession number D4A055)
Molecular Weight	50 kDa
Cite this Antibody	Antibodies Inc Cat# 75-054-FL594, RRID: AB_2939238

Details

Target Description	Voltage-dependent L-type calcium channel subunit beta-4 or Cav β4 is encoded by the gene CACNB4. Cavβ4 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 β4 is expressed predominantly in the brain (cerebellum) and kidney. Diseases associated with this gene include Episodic Ataxia, Type 5 and Epilepsy.
Specificity	No cross-reactivity against rat Cavβ1b, Cavβ2a, and Cavβ3 in transfected cells
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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