

Product Datasheet

Anti-Cav1.2 Ca²⁺ Channel Antibody FL594 Conjugate

Overview

Catalog #	75-053-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2b
Clone Number	L57/46
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	Guinea Pig, Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 1507-1733 (intracellular carboxyl terminus) of rabbit Cav1.2 (accession number P15381) produced recombinantly in E. Coli
Molecular Weight	240 kDa (varies with cell background due to glycosylation)
Cite this Antibody	Antibodies Inc Cat# 75-053-FL594, RRID: AB_2939234

Details

Target Description	Voltage-dependent L-type calcium channel subunit alpha-1C or Cav1.2 calcium channel (other names include as CACNA1C, CACH2, CACN2, CACNL1A1, CCHL1A1) is a calcium channel encoded by the gene CACNA1C. It is a member of the L type voltage dependent calcium channel family. These calcium channels mediate the influx of calcium ions into a cell upon membrane polarization. Cav1.2 is expressed in many tissues including smooth muscle, liver, kidney brain and heart. In brain, it can be detected in the hippocampus and brain cortex in the post-synaptic density and in neuronal cell bodies. Calcium channels are involved in many cell processes including muscle contraction, neurotransmitter release, gene expression, cell division and cell death. Mutations in the Cav1.2 gene have been associated with Timothy syndrome, Brugada syndrome 3 and Long QT syndrome 8.
Specificity	No cross-reactivity reported
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.

Our Guarantee

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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