

Product Datasheet

Anti-Cav3.2 Ca²⁺ Channel Antibody FL490 Conjugate

NeuroMab



KO Validated

Overview

Catalog #	75-095-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N55/10
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 and Mouse
Immunogen	Fusion protein amino acids 1019-1293 (cytoplasmic loop between repeat II and repeat III) of human Cav3.2 (accession number O95180), epitope mapped to amino acids 1179-1192 (AEDGRAAPGPRATP) produced recombinantly in E. Coli
Molecular Weight	260 kDa
Cite this Antibody	Antibodies Inc Cat# 75-095-FL490, RRID: AB_2939352

Details

Target Description	Voltage-dependent T-type calcium channel subunit alpha-1H or Cav3.2 Ca ²⁺ channel is encoded by the gene CACNA1H. Cav3.2 is a pore forming alpha subunit of T voltage-sensitive calcium channels and gives rise to T-type calcium currents. (transient opening calcium channels). These channels facilitate entry of calcium ions into excitable cells are involved in a variety of calcium dependent processes, including neurotransmitter release, muscle contraction, and gene expression. Cav3.2 is expressed in kidney, liver, and heart and brain.as a membrane bound protein. Diseases associated with this gene include Hyperaldosteronism and Epilepsy.
Specificity	Does not cross-react with Cav3.1
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 on cells overexpressing target protein and confirmed to give the expected staining pattern.

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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