

Product Datasheet

Anti-Cav3.1 Ca²⁺ Channel Antibody FL550 Conjugate

Overview

Catalog #	75-206-FL550
Conjugate	FL550 Ex: 550 nm, Em: 575 nm
Isotype	IgG1
Clone Number	N178A/9
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, and Rat
Immunogen	Fusion protein amino acids 2052-2172 (cytoplasmic C-terminus) of mouse Cav3.1 (accession number Q9WUT2) produced recombinantly in E. Coli
Molecular Weight	>200 kDa
Cite this Antibody	Antibodies Inc Cat# 75-206-FL550, RRID: AB_2939765

Details

Target Description	Voltage-dependent T-type calcium channel subunit alpha or Cav3.1 Ca ²⁺ channel is encoded by the gene CACNA1G. Cav3.1 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. Cav3.1 is expressed in various tissues including heart and smooth muscle, kidney, bone, and brain as a membrane bound protein. Diseases associated with this gene include forms of Spinocerebellar Ataxia
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.

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