

## Product Datasheet

Anti-Cav3.1 Ca<sup>2+</sup> Channel Antibody FL594 Conjugate

## Overview

<b>Catalog #</b>	75-206-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N178A/9
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Human, Mouse, and Rat
<b>Immunogen</b>	Fusion protein amino acids 2052-2172 (cytoplasmic C-terminus) of mouse Cav3.1 (accession number Q9WUT2) produced recombinantly in E. Coli
<b>Molecular Weight</b>	>200 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-206-FL594, RRID: AB_2939766

## Details

<b>Target Description</b>	Voltage-dependent T-type calcium channel subunit alpha or Cav3.1 Ca <sup>2+</sup> 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
<b>Specificity</b>	No cross-reactivity reported
<b>Purification Method</b>	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.
<b>Quality Control Tests</b>	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**

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