

## Product Datasheet

Anti-Cavbeta4 Ca<sup>2+</sup> Channel Antibody FL550 Conjugate

## Overview

<b>Catalog #</b>	75-054-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N10/7
<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, Pig, and Rat
<b>Immunogen</b>	Synthetic peptide amino acids 458-474 of rat Cav4 (DENYHNERARKSRNRLS; accession number D4A055)
<b>Molecular Weight</b>	50 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-054-FL550, RRID: AB_2939237

## Details

<b>Target Description</b>	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.
<b>Specificity</b>	No cross-reactivity against rat Cav&beta;1b, Cav&beta;2a, and Cav&beta;3 in transfected cells
<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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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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