

## Product Datasheet

Anti-Cavbeta1 Ca<sup>2+</sup> Channel Antibody FL550 Conjugate

## Overview

<b>Catalog #</b>	75-052-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N7/18
<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, Non-Human Primate, and Rat
<b>Immunogen</b>	Synthetic peptide amino acids 19-34 of rat Cav1 (PMEVFDPSQGKYSKR; accession number NP_059042)
<b>Molecular Weight</b>	80, 55 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-052-FL550, RRID: AB_2939229

## Details

<b>Target Description</b>	Voltage-dependent L-type calcium channel subunit beta-1 or Cav β1 is encoded by the gene CACNB1. Cavβ1 is a cytoplasmic subunit of L type 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. Cavβ1 serves to regulate the activity of L-type calcium channels. Cavβ1 expressed in brain, heart, spleen, central nervous system and neuroblastoma cells. Diseases associated with CACNB1 include Malignant Hyperthermia and epileptic encephalopathy.
<b>Specificity</b>	Does not cross-react with Cav&beta;2, Cav&beta;3, Cav&beta;4
<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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