

## Product Datasheet

Anti-Cav1.2 Ca<sup>2+</sup> Channel Antibody FL490 Conjugate

## Overview

<b>Catalog #</b>	75-257-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG2b
<b>Clone Number</b>	N263/31
<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>	Guinea Pig, Human, Mouse, Rabbit, and Rat
<b>Immunogen</b>	Fusion protein amino acids 808-874 (cytoplasmic loop between repeat II and III) of rat Cav1.2 (accession number Q5S007) produced recombinantly in E. Coli
<b>Molecular Weight</b>	240 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-257-FL490, RRID: AB_2939932

## Details

<b>Target Description</b>	Voltage-dependent L-type calcium channel subunit alpha-1C or Cav1.2 calcium channel (other names include as CACNA1C, CACH2, CACN2, CACNL1A1, CCHL1A1 ) is a calcium channel encoded by the gene CACNA1C. It is a member of the L type voltage dependent calcium channel family. These calcium channels mediate the influx of calcium ions into a cell upon membrane polarization. Cav1.2 is expressed in many tissues including smooth muscle, liver, kidney brain and heart. In brain, it can be detected in the hippocampus and brain cortex in the post-synaptic density and in neuronal cell bodies. Calcium channels are involved in many cell processes including muscle contraction, neurotransmitter release, gene expression, cell division and cell death. Mutations in the Cav1.2 gene have been associated with Timothy syndrome, Brugada syndrome 3 and Long QT syndrome 8.
<b>Specificity</b>	Does not cross-react with Cav1.3
<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.

**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**

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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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