

## Product Datasheet

## Anti-Chapsyn-110/PSD-93 Antibody FL594 Conjugate



## Overview

<b>Catalog #</b>	75-057-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N18/30
<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, Rabbit, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1-852 of rat Chapsyn-110 (accession number Q63622) produced recombinantly in E. Coli
<b>Molecular Weight</b>	110 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-057-FL594, RRID: AB_2939250

## Details

<b>Target Description</b>	PSD-93/Chapsyn-110 (also known as Channel-associated protein of synapse-110, Postsynaptic density protein PSD-93, Disks large homolog 2 andDlg2) is a member of the membrane-associated guanylate kinase (MAGUK) family. The protein contains a guanylate kinase-like domain, 3 PDZ domains and 1 SH3 domain. Chapsyn110 binds to NMDA receptor subunits and Shaker K <sup>+</sup> channel subunits to aid in forming a multiprotein scaffold which clusters receptors, ion channels, cytoskeletal proteins and other cell signaling proteins. In this manner, it plays a key role in postsynaptic targeting. It is found in brain in neuronal cells and located at the cell synapse, postsynaptic cell membrane and postsynaptic density. Chapsyn110 has been implicated in chronic pain, bilateral retinoblastoma and schizophrenia.
<b>Specificity</b>	No cross-reactivity against other MAGUK family members PSD-95, SAP97, SAP102 expressed 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.

**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.

**Our Guarantee**

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