

Product Datasheet

Anti-Chapsyn-110/PSD-93 Antibody FL490 Conjugate



Overview

Catalog #	75-057-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N18/30
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, Rabbit, and Rat
Immunogen	Fusion protein amino acids 1-852 of rat Chapsyn-110 (accession number Q63622) produced recombinantly in E. Coli
Molecular Weight	110 kDa
Cite this Antibody	Antibodies Inc Cat# 75-057-FL490, RRID: AB_2939248

Details

Target Description	PSD-93/Chapsyn-110 (also known as Channel-associated protein of synapse-110, Postsynaptic density protein PSD-93, Disks large homolog 2 and Dlg2) 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 ⁺ 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.
Specificity	No cross-reactivity against other MAGUK family members PSD-95, SAP97, SAP102 expressed in transfected cells
Purification Method	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

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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