

Product Datasheet

Anti-PSD-95 MAGUK Scaffold Protein Antibody FL490 Conjugate



Overview

Catalog #	75-348-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	K28/74
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, Non-Human Primate, and Rat
Immunogen	Fusion protein amino acids 77-299 (PDZ domains 1 and 2) of human PSD-95 (accession number P78352) produced recombinantly in E. Coli
Molecular Weight	95-110 kDa (varies with cell background due to phosphorylation)
Cite this Antibody	Antibodies Inc Cat# 75-348-FL490, RRID: AB_2940180

Details

Target Description	PSD-95 is a member of the MAGUK (membrane associated guanylate kinase) family (which also includes PSD-93, SAP97 and SAP102) and functions as a scaffold protein that can cluster membrane receptors, ion channels, including NMDA receptor subunits, Kv1 potassium channels and Caspr2. The protein is encoded by DLG4, contains hallmark PDZ, SH3 and GuK domains and is found at post synaptic densities where it plays an important role in the formation and maintenance of synaptic junctions (Zhou and Blumberg, 2003). Indeed, overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. Antibodies against PSD95/DLG4 are frequently used in conjunction with pre-synaptic markers to localize synapses by microscopy
Specificity	Does not cross-react with DLG1/SAP97
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.

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