

PRODUCT DATASHEET

Anti-PSD-95 (K28/43) Recombinant Guinea Pig Chimeric mAb FL490 Conjugate

Overview

Catalog #	74-028-FL490 (100 µL size)
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG
Clone Number	K28/43
Concentration	0.5 mg/mL
Host Species	Guinea Pig Recombinant
Format	Purified by affinity chromatography
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Applications	ICC, IHC
Species Reactivity	Chicken, 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)

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	No cross-reactivity against recombinant Chapsyn-110, SAP97 or SAP102
Purification Method	This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of clone K28/43 with guinea pig IgG heavy and light constant regions. As such this antibody retains the same binding performance as the original clone K28/43 but can be detected using standard anti-guinea pig secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media and conjugated.

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.
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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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