

## Product Datasheet

## Anti-PSD-95 MAGUK Scaffold Protein Antibody FL650 Conjugate

NeuroMab



KO Validated

## Overview

<b>Catalog #</b>	75-348-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	K28/74
<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, Non-Human Primate, and Rat
<b>Immunogen</b>	Fusion protein amino acids 77-299 (PDZ domains 1 and 2) of human PSD-95 (accession number P78352) produced recombinantly in E. Coli
<b>Molecular Weight</b>	95-110 kDa (varies with cell background due to phosphorylation)
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-348-FL650, RRID: AB_2940183

## Details

<b>Target Description</b>	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
<b>Specificity</b>	Does not cross-react with DLG1/SAP97
<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.
<b>Quality Control Tests</b>	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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