

Product datasheet

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ARG20549 anti-PSD95 antibody [6G6] (FITC)

Package: 50 μg Store at: -20°C

Summary

Product Description FITC-conjugated Mouse Monoclonal antibody [6G6] recognizes PSD95

Tested Reactivity Hu, Ms, Rat, Bov

Tested Application ICC/IF, IHC-P

Specificity Detects a ~100kDa protein corresponding to the molecular mass of PSD-95 on SDS PAGE immunoblots.

An additional protein of >100kDa is also detected. Additional cross-reactive bands are detected at

~75kDa and 50kDa in rat and mouse samples.

Host Mouse

Clonality Monoclonal

Clone 6G6
Isotype IgG2a
Target Name PSD95

Species Rat

Immunogen Recombinant Rat PSD-95 (NP_062567.1)

Conjugation FITC

Alternate Names Postsynaptic density protein 95; SAP90; PSD-95; Synapse-associated protein 90; PSD95; SAP-90; Disks

large homolog 4

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100
	IHC-P	1:100
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Stabilizer 50% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Keep the antibody in the dark

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and keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol Dlg4

Gene Full Name discs, large homolog 4 (Drosophila)

Background Postsynaptic Density protein 95 (PSD95), also known as Synapse associated protein 90kDa, is a member of

the membrane-associated guanylate kinase (MAGUK) family of proteins. PSD95 is a scaffolding protein and is involved in the assembly and function of the postsynaptic density complex. These family members consist of an N-terminal variable segment followed by three amino-terminal PDZ domains, an upstream SH3 domain and an inactive carboxyl-terminal guanylate kinase (GK) domain. The first and second PDZ domain localize NMDA receptors and K+ channels to synapses, and the third binds to neuroligins which are neuronal cell adhesion molecules that interact with b-neurexins and form intercellular junctions. PSD-95 also binds to neuronal nitric oxide synthase, possibly through interactions between PDZ domains present on both proteins. Thus different PDZ domains of PSD-95 might be specialized for distinct functions. PSD95 participates in synaptic targeting of AMPA receptors through an indirect manner involving Stargazin and related transmembrane AMPA receptor regulatory proteins (TARPs). The protein is implicated in experience dependent plasticity and plays an indispensable role in learning. Mutations in PSD95 are associated with autism.

Function Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels.

Required for synaptic plasticity associated with NMDA receptor signaling. Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the

intracellular trafficking of ADR1B. [UniProt]

Research Area Neuroscience antibody

Calculated Mw 80 kDa

PTM Palmitoylation of isoform 1 is required for targeting to postsynaptic density.

Cellular Localization Cell Membrane, Cell Junction, Synapse