

Summary

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

Package: 50 μg Store at: -20°C

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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	lgG2a
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 recomm should be determined by the sc	nended starting dilutions and the optimal dilutions or concentrations ientist.

## **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

Note

## Bioinformation

Gene Symbol Gene Full Name Background Function	Dlg4 discs, large homolog 4 (Drosophila) 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 receptor sthrough 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. 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
Research Area Calculated Mw PTM Cellular Localization	amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B. [UniProt] Neuroscience antibody 80 kDa Palmitoylation of isoform 1 is required for targeting to postsynaptic density. Cell Membrane, Cell Junction, Synapse

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.

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