

PSD 95 PDZ domain

Cat.No. 124 012; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 up to 1 : 10000 (AP staining) IP: yes ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 64 to 247 from mouse PSD95 (UniProt Id: Q62108)
Reactivity	Reacts with: rat (P31016), mouse (Q62108). Other species not tested yet.
Specificity	Specific for PSD 95 with weak cross-reactivity to SAP 102
matching control	124-01P

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

PSD 95 (postsynaptic density protein **95** kDa, also called **SAP 90**: synapse associated protein of **90** kDa and **DLG 4**) is a component of postsynaptic densities in central synapses. It contains three PDZ domains. The first and second PDZ domain localizes NMDA receptors and K⁺ channels to synapses, the third binds to neuroligins which are neuronal cell adhesion molecules that interact with β-neurexins and form intercellular junctions. Thus different PDZ domains of PSD 95 might be specialized for distinct functions.

Selected References SYSY Antibodies

Parvalbumin-producing striatal interneurons receive excitatory inputs onto proximal dendrites from the motor thalamus in male mice.

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Selected General References

SAP family proteins.

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Molecular organization of excitatory chemical synapses in the mammalian brain.

Gundelfinger ED, tom Dieck S

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Binding of neuroligins to PSD-95.

Irie M, Hata Y, Takeuchi M, Ichtchenko K, Toyoda A, Hirao K, Takai Y, Rosahl TW, Südhof TC
Science (New York, N.Y.) (1997) 277(5331): 1511-5.

Mechanisms determining the time course of secretion in neuroendocrine cells.

Chow RH, Klingauf J, Heinemann C, Zucker RS, Neher E

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Domain interaction between NMDA receptor subunits and the postsynaptic density protein PSD-95.

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