

PSD 93

Cat.No. 124 103; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: yes , but special protocol (see Valtschanoff et al. 2000) ICC: 1 : 100 (see remarks) IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 22 to 37 from rat PSD93 (UniProt Id: Q63622)
Reactivity	Reacts with: human (Q15700), rat (Q63622), mouse (Q91XM9), hamster. No signal: zebrafish. Other species not tested yet.
Specificity	Specific for PSD 93. (K.O. verified)
matching control	124-1P
Remarks	ICC: Para-formaldehyde fixation is not recommended. Methanol fixation is more suitable and gives better results.

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

PSD 93 (postsynaptic density protein of 93 kDa, also called **chapsin 110** and **DLG 2**) belongs to the PSD 95 family containing a modular structure with three PDZ-, one SH3- and a guanylate kinase-like domain. It is a component of postsynaptic densities in central synapses.

PSD 93 is expressed in discrete neuronal populations as well as in specific non-neuronal cells. It exhibits complex molecular diversity attributable to tissue-specific alternative splicing. PSD 93, like PSD 95, binds to NMDA receptors and to the neuronal nitric oxide synthase (NOS).

PSD 93 and PSD 95 can heteromultimerize with each other and are recruited into the same NMDA receptor and K⁺ channel clusters. PSD 93, however, is unique among PSD 95 family members in its expression in Purkinje neuron cell bodies and dendrites.

Selected General References

SAP family proteins.

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Heteromultimerization and NMDA receptor-clustering activity of Chapsyn-110, a member of the PSD-95 family of proteins.

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