

Synaptogyrin 1

Cat.No. 103 003; 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 IP: yes ICC: 1 : 500 IHC: 1 : 200 up to 1 : 500 IHC-P/FFPE: 1 : 500
Immunogen	Synthetic peptide corresponding to AA 220 to 234 from rat Synaptogyrin1 (UniProt Id: Q62876)
Reactivity	Reacts with: rat (Q62876), mouse (O55100). Other species not tested yet.
Specificity	Specific for synaptogyrin 1.
matching control	103-0P

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

Synaptogyrins are tyrosine-phosphorylated proteins with two neuronal (**synaptogyrin 1** and 3) and one ubiquitous, synaptogyrin 2 or cellugyrin isoform. Synaptogyrins are integral membrane proteins and localize to the membrane of small vesicles. Synaptogyrin 1 and 3 are expressed in the brain whereby the latter shows a more restricted expression pattern with high levels in the mossy fiber region of the hippocampus, substantia nigra pars reticulata, pallidum, and deep cerebellar nuclei. Synaptogyrin 2/cellugyrin, a close relative, is expressed in all tissues, for instance, in distinct populations of GLUT 4 containing vesicles.

Selected General References

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Cellugyrin, a novel ubiquitous form of synaptogyrin that is phosphorylated by pp60c-src.
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The Journal of biological chemistry (1998) 273(5): 2851-7.

The synaptic vesicle cycle: a cascade of protein-protein interactions.
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Synaptic vesicles and exocytosis.
Jahn R, Südhof TC
Annual review of neuroscience (1994) 17: 219-46.