

Synaptogyrin 1

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Cat.No. 103-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 μg peptide, lyophilized. For reconstitution add 100 μl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 220 to 234 from rat Synaptogyrin1 (UniProt Id: Q62876)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	103 002, 103 003
Remarks	This control peptide consists of the synthetic peptide (NAFDAEPQGYQSQGY) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

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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