

Synaptogyrin 2

Cat.No. 103-02P; 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 211 to 224 from rat Synaptogyrin2 (UniProt Id: O54980)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	103 204, 103 203
Remarks	This control peptide consists of the synthetic peptide (aa 211-224 of rat synaptogyrin 2) 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

Cellugyrin induces biogenesis of synaptic-like microvesicles in PC12 cells.
Belfort GM, Bakirtzi K, Kandror KV
The Journal of biological chemistry (2005) 280(8): 7262-72.

Cellugyrin is a marker for a distinct population of intracellular Glut4-containing vesicles.
Kupriyanova TA, Kandror KV
The Journal of biological chemistry (2000) 275(46): 36263-8.

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