

Synaptogyrin 2

Cat.No. 103 204; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not recommended IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 211 to 224 from rat Synaptogyrin2 (UniProt Id: O54980)
Reactivity	Reacts with: human (O43760), rat (O54980), mouse (O55101). Other species not tested yet.
Specificity	Specific for synaptogyrin 2.
matching control	103-02P

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.