

Neurologin 3

Cat.No. 129 103; 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: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet ELISA: yes (see remarks)
Immunogen	Recombinant protein corresponding to AA 710 to 824 from mouse Neurologin3 (UniProt Id: Q8BYM5)
Reactivity	Reacts with: rat (Q62889), mouse (Q8BYM5). Other species not tested yet.
Specificity	Specific for neurologin 3. Detects other neurologins when heavily overexpressed. (K.O. verified)
matching control	129-1P
Remarks	ELISA: Suitable as detector antibody for sandwich-ELISA with cat. no. 129 011 as capture antibody (protocol for sandwich-ELISA).

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

Neurologins form a family of postsynaptic cell surface molecules that interact with β -neurexins. They are 110-120 kDa polypeptides with homology to acetylcholine esterase. Neurologin 1 and **neurologin 3** are specifically localized to post-synaptic densities of excitatory synapses whereas neurologin 2 is found exclusively on inhibitory synapses. Mutations in neurologin 3 and neurologin 4 have been implicated with a rare, heritable form of autism.

Selected References SYSY Antibodies

Expression of neurexin, neuroligin, and their cytoplasmic binding partners in the pancreatic beta-cells and the involvement of neuroligin in insulin secretion.

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Endocrinology (2008) 149(12): 6006-17. **WB**

Neuroligin 1 regulates spines and synaptic plasticity via LIMK1/cofilin-mediated actin reorganization.

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The Journal of cell biology (2016) 212(4): 449-63. **WB**

Synaptic Contacts Enhance Cell-to-Cell Tau Pathology Propagation.

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Cell reports (2015) 11(8): 1176-83. **WB; KD verified; tested species: rat**

Promoter-like sequences regulating transcriptional activity in neurexin and neuroligin genes.

Runkel F, Rohlmann A, Reissner C, Brand SM, Missler M

Journal of neurochemistry (2013) 127(1): 36-47. **WB**

Selected General References

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Proceedings of the National Academy of Sciences of the United States of America (1999) 96(3): 1100-5.

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Chubykin AA, Liu X, Comoletti D, Tsigelny I, Taylor P, Südhof TC

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Neuroligin 2 is exclusively localized to inhibitory synapses.

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The making of neurexins.

Missler M, Fernandez-Chacon R, Südhof TC

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Structures, alternative splicing, and neurexin binding of multiple neurologins.

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Cell (1995) 81(3): 435-43.

The synaptic vesicle cycle: a cascade of protein-protein interactions.

Südhof TC

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