Synaptic Systems

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Neuroligin 1 extracellular domain

Cat.No. 129 003; 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_2O 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**: yes **IHC**: yes **IHC-P/FFPE**: not tested yet
Immunogen	Recombinant protein corresponding to AA 46 to 165 from rat Neuroligin1 (UniProt Id: Q62765)
Reactivity	Reacts with: rat (Q62765), mouse (Q99K10). No signal: zebrafish. Other species not tested yet.
Specificity	Specific for neuroligin 1, no cross reactivity to neuroligins 2, 3, 4. (K.O. verified)
matching control	129-0P

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

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

Selected References SYSY Antibodies

Overexpression of the cell adhesion protein neuroligin-1 induces learning deficits and impairs synaptic plasticity by altering the ratio of excitation to inhibition in the hippocampus.
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Selected General References

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