Synaptic Systems

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Neuroligin 1/2/3/4 cytoplasmic domain

Cat.No. 129 213; 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**: yes **ICC**: 1 : 500 up to 1 : 1000 **IHC**: not tested yet **IHC-P/FFPE**: not tested yet
Immunogen	Synthetic peptide corresponding to AA 826 to 843 from mouse Neuroligin1 (UniProt Id: Q99K10)
Reactivity	Reacts with: rat (Q62765, Q62888, Q62889,), mouse (Q99K10, Q69ZK9, Q8BYM5, B0F2B4). Other species not tested yet.
Specificity	Recognizes neuroligin 1, 2, 3 and 4. (K.O. verified)

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 General References

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Neuroligin 2 is exclusively localized to inhibitory synapses.
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