

Neurologin 4

Cat.No. 129 403; 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
Immunogen	Synthetic peptide corresponding to AA 686 to 699 from mouse Neurologin4 (UniProt Id: B0F2B4)
Reactivity	Reacts with: mouse (B0F2B4). No signal: zebrafish, rat. Other species not tested yet.
Specificity	Specific for neurologin 4, no cross reactivity to neurologins 1, 2, 3. (K.O. verified)
matching control	129-4P

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 **4** have been implicated with a rare, heritable form of autism.

Selected General References

Neurologin-4 is localized to glycinergic postsynapses and regulates inhibition in the retina.
Hoon M, Soykan T, Falkenburger B, Hammer M, Patrizi A, Schmidt KF, Sassoè-Pognetto M, Löwel S, Moser T, Taschenberger H, Brose N, et al.
Proceedings of the National Academy of Sciences of the United States of America (2011) 108(7): 3053-8.

Dissection of synapse induction by neuroligins: effect of a neuroligin mutation associated with autism.
Chubykin AA, Liu X, Comoletti D, Tsigelny I, Taylor P, Südhof TC
The Journal of biological chemistry (2005) 280(23): 22365-74.