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Synaptotagmin 1 lumenal domain

Cat.No. 105 103CpH; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

g specific antibody, lyophilized. Affinity purified with the immunogen, rescence-labeled with CypHer5E. Rabbit serum albumin was added for
vilization. For reconstitution add 50 μ l H_2O to get a 1mg/ml solution in PBS. er add 1:1 (v/v) glycerol, then aliquot and store at -20°C until use, or store uots at -80°C without additives. on the immediately upon receipt! Avoid bright light when working with the body to minimize photo bleeching of the fluorescent dye.
N/A (see remarks) N/A 1: 100 up to 1: 500 : not tested yet -P/FFPE: not tested yet
Her5E
thetic peptide corresponding to AA 1 to 8 from mouse Synaptotagmin1 Prot Id: P46096)
cts with: rat (P21707), mouse (P46096). er species not tested yet. unknown reasons antibodies raised against the luminal N-terminus of aptotagmin 1 show a strong preference for the rat protein.
cific for synaptotagmin 1, no cross-reactivity to synaptotagmin 2.
-10P
antibody can be used for labeling of recycling synaptic vesicles by adding to g neurons or as a marker for exocytosis in isolated nerve terminals.
This antibody is intended to be used for direct labeling of recycling synapses rimary neuronal cultures. The pH sensitive dye regaines its fluorescence after reacidification of the synaptic vesicle lumen.

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

Synaptotagmin 1 also known as **p65**, is an integral membrane glycoprotein of neuronal synaptic vesicles and secretory granules of neuroendocrine cells that is widely (but not ubiquitously) expressed in the central and peripheral nervous system. It has a variable N-terminal domain that is exposed to the lumen of the vesicle and a conserved cytoplasmic tail that contains two Ca²⁺-binding C2-domains. Ca²⁺-binding to synaptotagmin triggers exocytosis of synaptic vesicles, thus linking Ca²⁺-influx

during depolarization to neurotransmitter release.

Lumenal antibodies were used in living neurons to label synaptic vesicles from the outside via endocytotic uptake.

Selected General References

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