Synaptic Systems

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Clathrin light chain

Cat.No. 113 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H_2O, then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (AP staining) **IP**: yes **ICC**: 1 : 500 **IHC**: 1 : 500 **IHC-P/FFPE**: 1 : 500
Immunogen	Synthetic peptide corresponding to AA 156 to 173 from rat Clathrin light chainB (UniProt Id: P08082)
Reactivity	Reacts with: rat, mouse. Other species not tested yet.
Specificity	Specific for both neuronal light chains, does not cross-react with the non-neuronal variants.
matching control	113-0P

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

Clathrin consists of heavy chains and light chains that co-assemble to triskelions. The light chains are differentially spliced, with neurons expressing a special variant that is not detectable elsewhere. The neuron-specific light chains are enriched in synaptic nerve terminals where they participate in synaptic vesicle endocytosis.

Selected General References

Synaptic vesicle endocytosis.
Cremona O, De Camilli P
Current opinion in neurobiology (1997) 7(3): 323-30.

The synaptic vesicle cycle: a cascade of protein-protein interactions.
Südhof TC
Nature (1995) 375(6533): 645-53.

Tubular membrane invaginations coated by dynamin rings are induced by GTP-gamma S in nerve terminals.
Takei K, McPherson PS, Schmid SL, De Camilli P
Nature (1995) 374(6518): 186-90.

Synaptic vesicles and exocytosis.
Jahn R, Südhof TC
Annual review of neuroscience (1994) 17: 219-46.

Clathrin-coated vesicles in nervous tissue are involved primarily in synaptic vesicle recycling.
Maycox PR, Link E, Reetz A, Morris SA, Jahn R
The Journal of cell biology (1992) 118(6): 1379-88.