Synaptophysin 1

Cat.No. 101 002; Polyclonal rabbit antibody, 200 μl antiserum (lyophilized)

Data Sheet

Reconstitution/Storage

200 μl antiserum, lyophilized. For reconstitution add 200 μl H2O, then aliquot and store at -20°C until use.

Applications

WB: 1 : 1000 up to 1 : 10000 (AP staining)
IP: yes
ICC: 1 : 100 up to 1 : 500
IHC: 1 : 500
IHC-P/FFPE: 1 : 200
EM: yes
ELISA: yes (see remarks)

Immunogen

Synthetic peptide corresponding to AA 301 to 313 from human Synaptophysin1 (UniProt Id: P08247)

Reactivity

Reacts with: human (P08247), rat (P07825), mouse (Q62277), hamster, cow, chicken, frog, zebrafish.

Other species not tested yet.

Specificity

Specific for synaptophysin 1, no cross-reactivity to other synaptophysins.

match control

1:100-1

Remarks

ELISA: Suitable as detector antibody for sandwich-ELISA with cat. no. 101 011 as capture antibody (protocol for sandwich-ELISA).

Selected References SYSY Antibodies

Activity-dependent shedding of the NMDA receptor glycine binding site by matrix metalloproteinase 3: a PUTATIVE mechanism of postsynaptic plasticity.


Regulation of the Hippocampus Network by VGLUT3-Positive CCK- GABAergic Basket Cells.


Frontiers in cellular neuroscience (2017) 11: 140. WB, IP; tested species: mouse

A phosphorylation site regulates sorting of the vesicular acetylcholine transporter to dense core vesicles.


Distribution of synaptic vesicle proteins in the mammalian retina identifies obligatory and facultative components of ribbon synapses.

Von Kriegstein K, Schmitz F, Link E, Südhof TC


Synaptophysin 1 CenS Synaptobrevin 2 from the Presynaptic Active Zone to Prevent Short-Term Depression.

Rajappa R, Gauthier-Kemper A, Böning D, Hüve J, Klingauf J


The GTPase Rab26 links synaptic vesicles to the autophagy pathway.


Alpha-Synuclein transgenic mice, h-α-Syn62, display α-Syn aggregation and a dopaminergic phenotype reminiscent of Parkinson’s disease.


Synapsin-dependent reserve pool of synaptic vesicles supports replenishment of the readily releasable pool under intense synaptic transmission.

Vasileva M, Horstmann H, Geumann C, Gitter D, Kuner T


Monitoring translation in synaptic fractions using a ribosome profiling strategy.


Cyclophilin A deficiency accelerates RML-induced prion disease.

Bouybayoune I, Camerlingo L, Pasetto L, Bertani I, Bonetto V, Chiesa R

Neurobiology of disease (2019) : 104498. WB; tested species: mouse

LRK22 modifies α-syn pathology and spread in mouse models and human neurons.


Acta neuropathologica (2019) : WB; tested species: mouse

C-terminal calcium binding of a-synuclein modulates synaptic vesicle interaction.


Neuronal preservation and reactive gliosis attenuation following neonatal sciatic nerve axotomy by a fluorinated cannabidiol derivative.

Perez M, Cartarozzi LP, Chiarotto GB, Alves de Oliveira S, Guimarães FS, Rodrigues de Oliveira AL


Mitochondrial abnormalities and disruption of the neuromuscular junction precede the clinical phenotype and motor neuron loss in hFUSWT transgenic mice.


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