

Anti-Synaptophysin Antibody (Monoclonal, SVP-38)

Catalog # ABO10475

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P07825
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human, Rat
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Synaptophysin, synaptophysin (SYP) detection. Tested with WB, IHC-P, IHC-F in Human;Rat. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	24804
Other Names	Synaptophysin, Major synaptic vesicle protein p38, Syp
Calculated MW	33311
Application Details	Immunohistochemistry(Paraffin-embedded Section), 1-2 μ g/ml, Human, rat, By Heat Immunohistochemistry(Frozen Section), 1-2 μ g/ml, Human, rat, - Western blot, 0.5-1 μ g/ml, Human, rat
Subcellular Localization	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Cell junction, synapse, synaptosome.
Tissue Specificity	Characteristic of a type of small (30-80 nm) neurosecretory vesicles, including presynaptic vesicles, but also vesicles of various neuroendocrine cells of both neuronal and epithelial phenotype.
Source	Eukaryota
Protein Name	Synaptophysin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
Clone Names	SVP-38
Immunogen	Rat retina synaptosome.

Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the synaptophysin/synaptobrevin family.

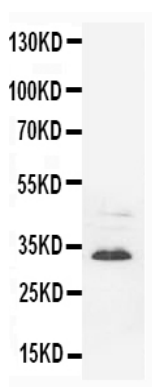
Protein Information

Name	Syp
Function	Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term synaptic plasticity (By similarity).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250 UniProtKB:Q62277}; Multi-pass membrane protein. Synapse, synaptosome {ECO:0000250 UniProtKB:P08247}
Tissue Location	Expressed in the brain with expression in the cerebrum and the cerebellum.

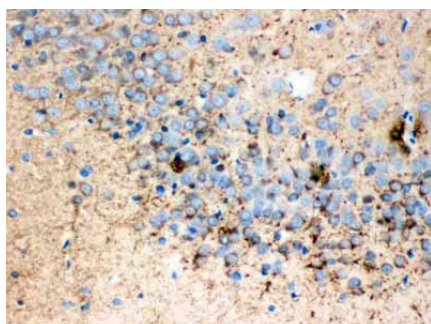
Background

Synaptophysin(SYP) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells. Ozcelik et al.(1990) concluded that the gene has 7 exons distributed over about 20 kb. SYP mapped the SYP locus to Xp11.23-p11.22. Regionalization of the gene on the X chromosome was also done with hamster/human hybrid cells in which various portions of the human X chromosome were present.

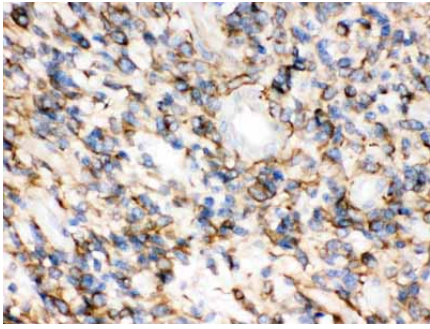
Images



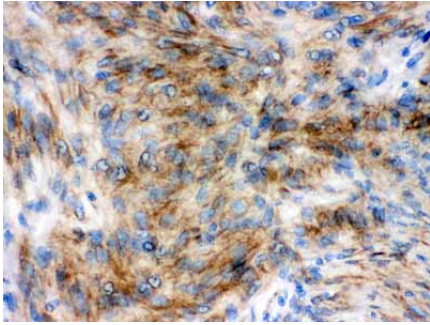
Anti-Synaptophysin antibody (monoclonal), ABO10475,
Western blottingWB: Rat Brain Tissue Lysate



Anti-Synaptophysin antibody (monoclonal), ABO10475,
IHC(P)IHC(P): Rat Brain Tissue



Anti-Synaptophysin antibody (monoclonal), ABO10475,
IHC(P)IHC(P): Human Glioma Tissue



Anti-Synaptophysin antibody (monoclonal), ABO10475,
IHC(P)IHC(P): Human meningeoma Tissue

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