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SYP Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AX10004

Product Information

Application	WB, IHC-P, IF, FC, E
Primary Accession	P08247
Other Accession	P07825, Q62277, NP_003170.1
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32966
Calculated MW	33845
Antigen Region	225-253

Additional Information

Gene ID	6855
Other Names	Synaptophysin, Major synaptic vesicle protein p38, SYP
Target/Specificity	This SYP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 225-253 amino acids from the C-terminal region of human SYP.
Dilution	WB~~1:2000 IHC-P~~1:1000 IF~~1:100 FC~~1:50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SYP Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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; Multi-pass membrane protein. Synapse, synaptosome
Tissue Location	Expressed in the brain, with expression in the hippocampus, the neuropil in the dentate gyrus, where expression is higher in the outer half of the molecular layer than in the inner half, and in the neuropil of CA4 and CA3 (PubMed:8838578). Expressed in the putamen (at protein level) (PubMed:17296554)

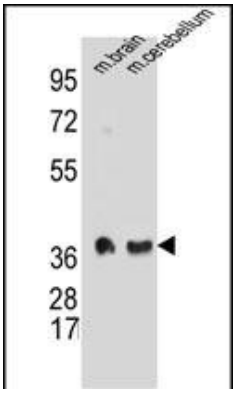
Background

Synaptophysin (p38) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells.[supplied by OMIM].

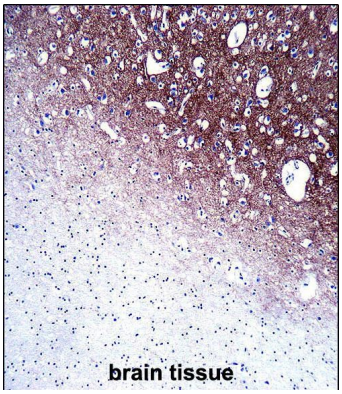
References

Ishida, M., et al. Oncol. Rep. 22(4):733-737(2009) Sterlacci, W., et al. Virchows Arch. 455(2):125-132(2009) Head, E., et al. Neurobiol. Aging 30(7):1125-1134(2009) Gulubova, M., et al. J. Gastroenterol. Hepatol. 23(10):1574-1585(2008) Glantz, L.A., et al. Neuroscience 149(3):582-591(2007)

Images

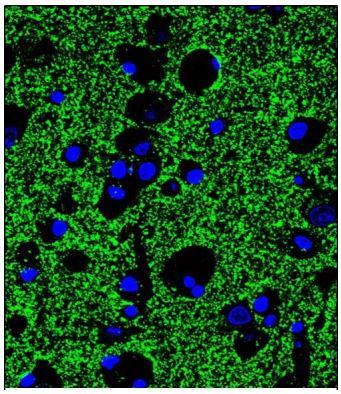


SYP Antibody (C-term) (Cat. #AX10004) western blot analysis in mouse brain and cerebellum tissue lysates (35ug/lane).This demonstrates the SYP antibody detected the SYP protein (arrow).

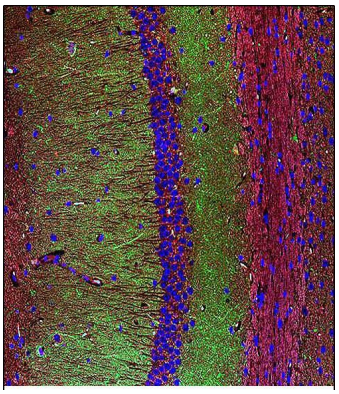


SYP Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SYP Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

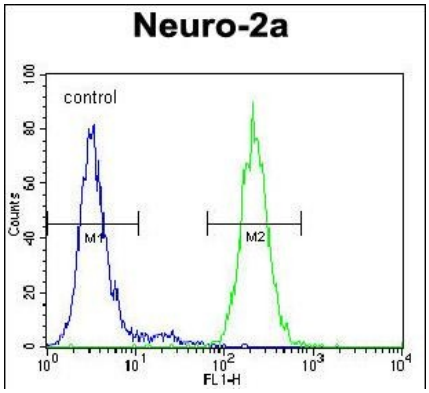
SYP Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse hippocampus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SYP Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of SYP Antibody (C-term) with human brain tissue followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).



Confocal immunofluorescent analysis of SYP Antibody (C-term) with mouse brain tissue followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).



TYSY Antibody (C-term) flow cytometric analysis of Neuro-2a cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.