10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SYP Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AX10004

Specification

SYP Antibody(C-term) - Product Information

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

SYP Antibody(C-term) - 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
IF~~1:100
WB~~1:2000
IHC-P~~1:1000
FC~~1:50

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.

SYP Antibody(C-term) - 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

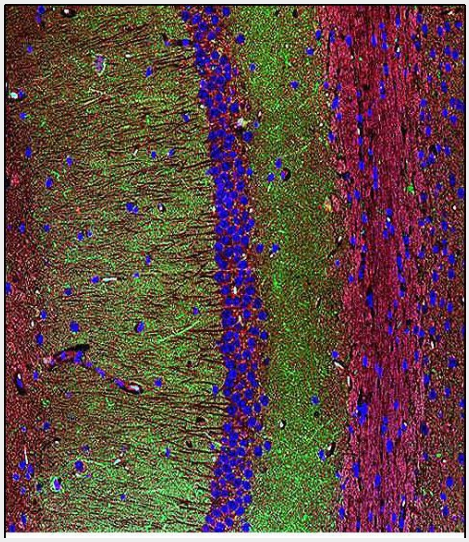
Tissue Location
Expressed in the brain, with expression in the hippocampus, the neuropil in the dentate gyrus, where expression is higher in the outer half of the molecular layer than in the inner half, and in the neuropil of CA4 and CA3 (PubMed:8838578). Expressed in the putamen (at protein level) (PubMed:17296554)

SYP Antibody(C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

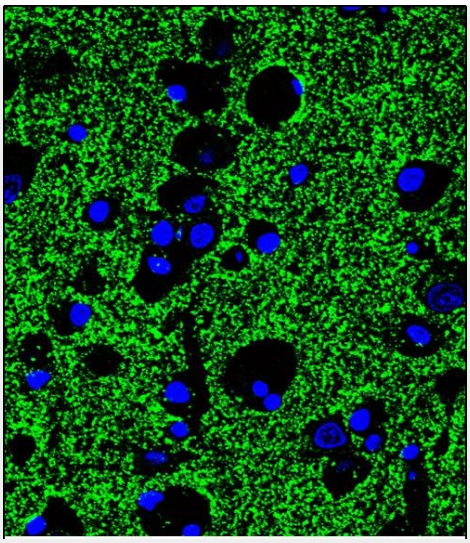
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SYP Antibody(C-term) - Images

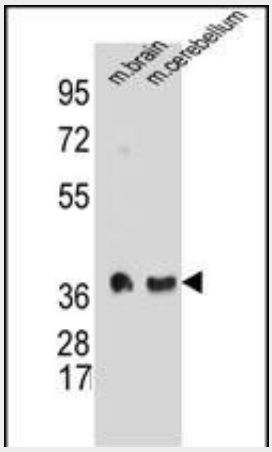


Confocal immunofluorescent analysis of SYP Antibody (C-term) with mouse brain tissue followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

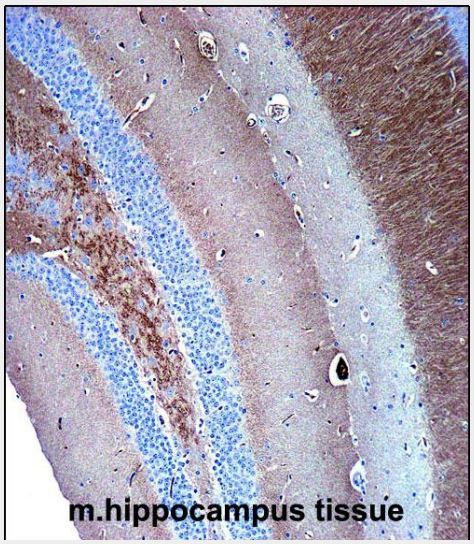
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Confocal immunofluorescent analysis of SYP Antibody (C-term) with human brain tissue followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

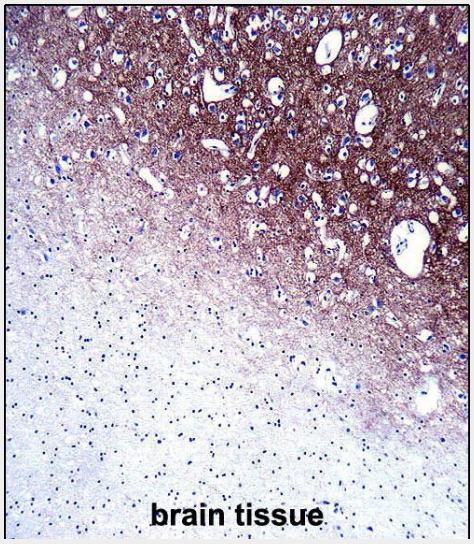


SYP Antibody (C-term) (Cat. #AX10004) western blot analysis in mouse brain and cerebellum tissue lysates (35ug/lane).This demonstrates the SYP antibody detected the SYP protein (arrow).

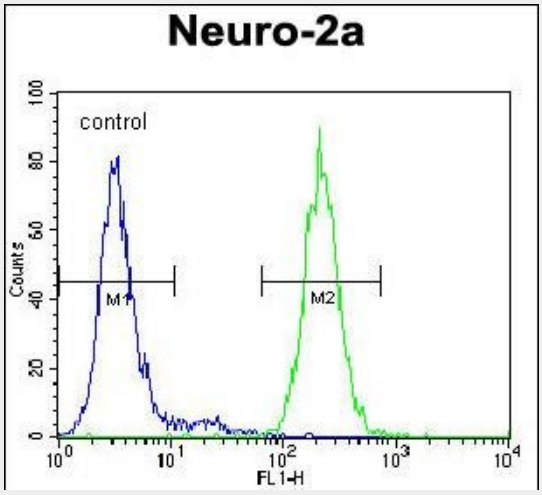


SYP Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded

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.



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) 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.

SYP Antibody(C-term) - Background

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

SYP Antibody(C-term) - 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)