

SYP Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13606b

Product Information

Application WB, IHC-P, E **Primary Accession** P08247

Other Accession <u>P07825, Q62277, NP 003170.1</u>

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~~1:1000 IHC-P~~1:100~500 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)

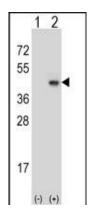
Background

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

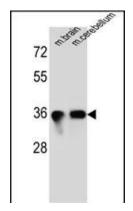
References

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



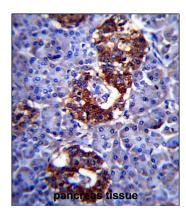
Western blot analysis of SYP (arrow) using rabbit polyclonal SYP Antibody (C-term) (Cat. #AP13606b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SYP gene.



SYP Antibody (C-term) (Cat. #AP13606b) western blot analysis in mouse brain, cerebellum tissue lysates (35ug/lane). This demonstrates the SYP antibody detected the SYP protein (arrow).

SYP Antibody (C-term) (Cat.

#AP13606b)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas 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) (Cat. #AP13606b)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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.