

For Research Use Only

Syntaphilin Polyclonal antibody

Catalog Number: 13646-1-AP

8 Publications



Basic Information

Catalog Number:

13646-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 527 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4594

GenBank Accession Number:

BC035788

GeneID (NCBI):

9751

UNIPROT ID:

O15079

Full Name:

syntaphilin

Calculated MW:

538 aa, 58 kDa

Observed MW:

70-75 kDa, 65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, mouse trachea tissue, rat brain tissue

IHC : mouse brain tissue,

Background Information

Syntaphilin is a protein selectively expressed in brain. Syntaphilin competes with SNAP-25 for binding to syntaxin-1 and inhibits SNARE complex formation by absorbing free syntaxin-1, and thereby regulates synaptic vesicle exocytosis (PMID: 10707983). The deduced 537-amino acid syntaphilin protein contains an N-terminal proline-rich domain, a predicted coiled-coil domain, a putative C-terminal transmembrane domain, and numerous consensus sites for protein phosphorylation. Whereas the calculated molecular mass of syntaphilin is 58 kDa, the apparent molecular mass of 70-75 kDa is larger than the predicted mass, suggesting a posttranslational modification of syntaphilin (PMID: 9205841; 10707983). An extra band of 65 kDa was also detected by this antibody that may represent an alternative syntaphilin gene product or a stable degradation product (PMID: 10707983; 24457644).

Notable Publications

Author	Pubmed ID	Journal	Application
Chen Chen	34637761	Brain Res	WB
Shaakir Salam	34193962	Sci Rep	IF
Cana Park	27370822	Mol Brain	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

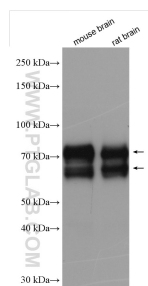
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

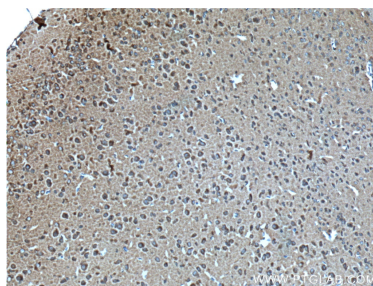
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

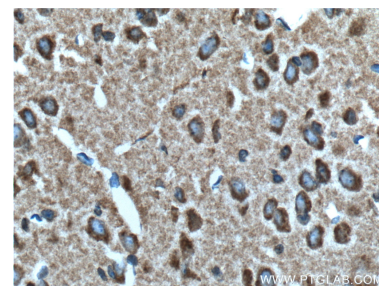
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13646-1-AP (Syntaphilin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13646-1-AP (Syntaphilin antibody at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13646-1-AP (Syntaphilin antibody at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).