

For Research Use Only

Syntaphilin Polyclonal antibody

Catalog Number: 13646-1-AP

8 Publications



Basic Information

Catalog Number:

13646-1-AP

Size:

1000 μ g/ml

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

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

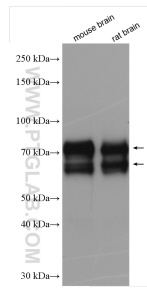
T: 4006900926

E: Proteintech-CN@ptglab.com

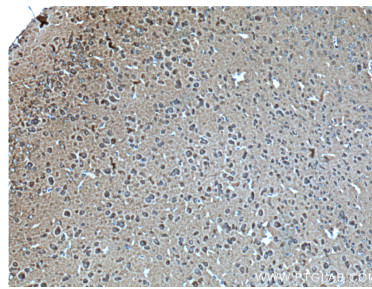
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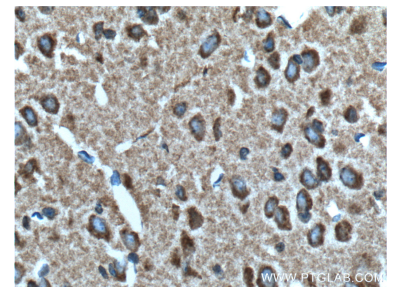
Selected Validation Data



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).