

For Research Use Only

Syntaphilin Polyclonal antibody

Catalog Number: 13646-1-AP **4 Publications**



Basic Information

Catalog Number: 13646-1-AP	GenBank Accession Number: BC035788	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 527 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9751	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500
Source: Rabbit	Full Name: syntaphilin	
Isotype: IgG	Calculated MW: 538 aa, 58 kDa	
Immunogen Catalog Number: AG4594	Observed MW: 70-75 kDa, 65 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse brain tissue, mouse trachea tissue, rat brain tissue IHC : mouse brain tissue,
Cited Applications: IF, WB	
Species Specificity: human, mouse, rat	
Cited Species: 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

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

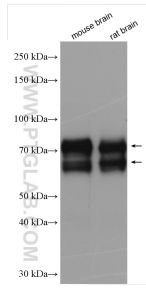
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

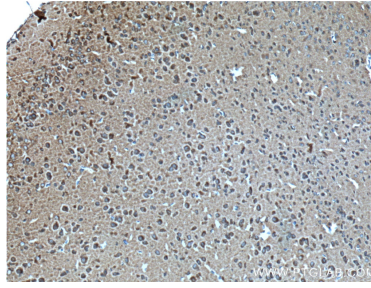
For technical support and original validation data for this product please contact:
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E: proteintech@ptglab.com
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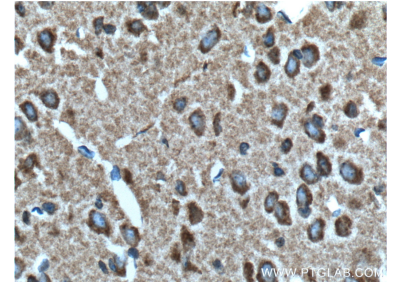
Selected Validation Data



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).