

For Research Use Only

# SNAP25 Monoclonal antibody

Catalog Number: 60159-1-Ig **9 Publications**



## Basic Information

<b>Catalog Number:</b> 60159-1-Ig	<b>GenBank Accession Number:</b> BC010647	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Nanodrop and 635 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6616	<b>CloneNo.:</b> 3E4B7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P60880	<b>Recommended Dilutions:</b> WB 1:5000-1:20000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> synaptosomal-associated protein, 25kDa	
<b>Immunogen Catalog Number:</b> AG6695	<b>Calculated MW:</b> 23 kDa	
	<b>Observed MW:</b> 25-30 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**  
WB, IHC, IF

**Species Specificity:**  
human, mouse, rat, pig

**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:** pig brain tissue, fetal human brain tissue, PC-12 cells, HEK-293 cells, rat brain tissue, mouse brain tissue

**IP:** mouse brain tissue,

**IHC:** rat brain tissue, mouse brain tissue

**IF/ICC:** PC-12 cells,

## Background Information

The synaptosomal associated protein of 25 kD (SNAP-25) was first identified as a major synaptic protein by Wilson and colleagues. The protein interacts with syntaxin and synaptobrevin through its N-terminal and C-terminal -helical domains. Its palmitoylation domain is located in the middle of the molecule that contains four cysteine residues. Mutation of the cysteines abolishes palmitoylation and membrane binding. Several elegant studies using synaptosome preparations and permeabilized PC12 cells have suggested that SNAP-25 may act in the late post-docking steps of exocytosis. By limited proteolysis and in vitro binding assay, it is proposed that the two helix domains act independently and contribute equally to form the SNARE complex with syntaxin and synaptobrevin. It seems that a major regulatory element is located in the C-terminus of SNAP-25. Removing a 9 amino acid sequence of SNAP-25 inhibited neurosecretion in chromaffin cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zi-Jun Wang	34007043	Neuropsychopharmacology	WB
Jamal B Williams	34423299	Brain Commun	WB,IF
King-Lian Duan	31962145	Neuroscience	WB,IHC

## 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

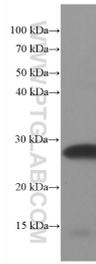
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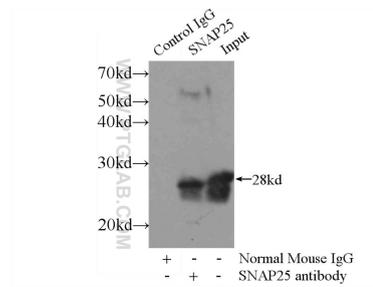
E: proteintech@ptglab.com  
W: ptglab.com

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

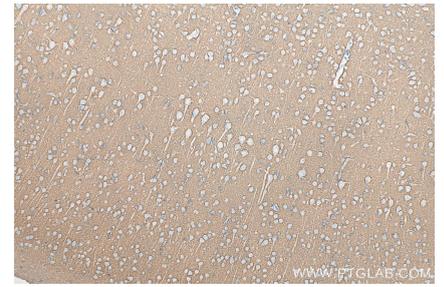
## Selected Validation Data



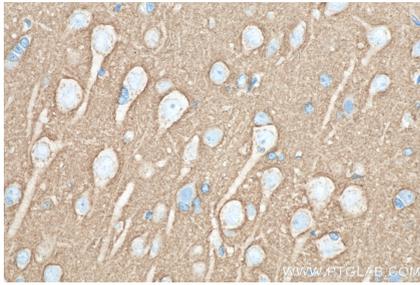
pig brain tissue were subjected to SDS PAGE followed by western blot with 60159-1-Ig (SNAP25 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



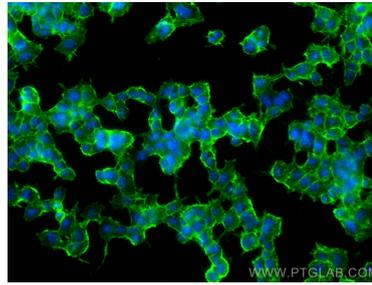
IP result of anti-SNAP25 (IP:60159-1-Ig, 3ug; Detection:60159-1-Ig 1:500) with mouse brain tissue lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 60159-1-Ig (SNAP25 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 60159-1-Ig (SNAP25 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using SNAP25 antibody (60159-1-Ig, Clone: 3E4B7) at dilution of 1:400 and Multi-rAb Coralite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).