

For Research Use Only

SNAP25 Monoclonal antibody

Catalog Number: 60159-1-Ig **8 Publications**



Basic Information

Catalog Number: 60159-1-Ig	GenBank Accession Number: BC010647	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 635 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6616	CloneNo.: 3E4B7
Source: Mouse	Full Name: synaptosomal-associated protein, 25kDa	Recommended Dilutions: WB 1:5000-1:20000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Isotype: IgG2b	Calculated MW: 23 kDa	IHC 1:1000-1:4000 IF 1:200-1:800
Immunogen Catalog Number: AG6695	Observed MW: 25-30 kDa	

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, rat, mouse

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 : 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
Xing-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

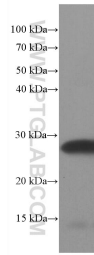
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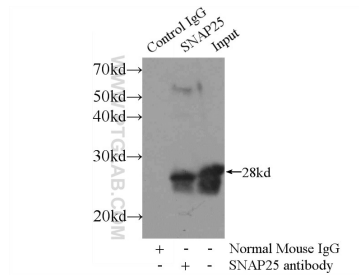
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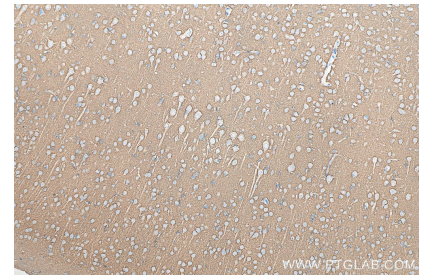
Selected Validation Data



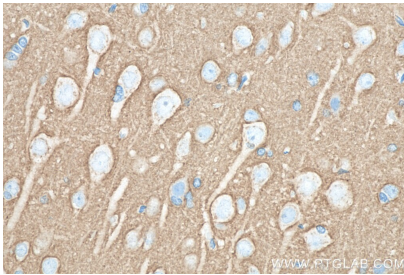
pig brain tissue were subjected to SDS PAGE followed by western blot with 60159-1-Ig (SNAP25 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



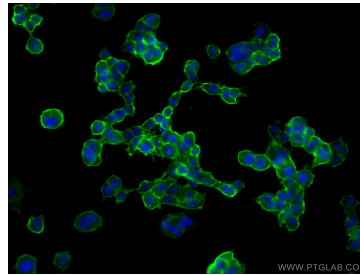
IP Result of anti-SNAP25 (IP:60159-1-Ig, 3ug; Detection:60159-1-Ig 1:500) with mouse brain tissue lysate 3600ug.



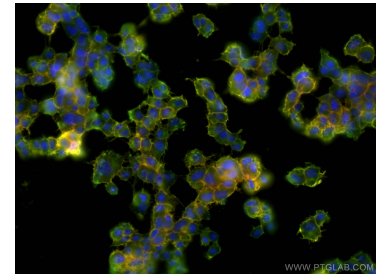
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 60159-1-Ig (SNAP25 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using SNAP25 antibody (60159-1-Ig, Clone: 3E4B7) at dilution of 1:1000 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), SNAP25 antibody (14903-1-AP, green).