

For Research Use Only

# SNAP25 Monoclonal ANTIBODY



Catalog Number: 60159-1-Ig **2 Publications**

## Basic Information

**Catalog Number:**

60159-1-Ig

**Size:**

150UL, Concentration: 1613 µg/ml by Bradford method using BSA as the standard;

**Source:**

Mouse

**Isotype:**

IgG2b

**Immunogen Catalog Number:**

AG6695

**GenBank Accession Number:**

BC010647

**GeneID (NCBI):**

6616

**Full Name:**

synaptosomal-associated protein, 25kDa

**Calculated MW:**

23 kDa

**Observed MW:**

28-32 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

3E4B7

**Recommended Dilutions:**

WB 1:5000-1:20000

IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB

IF 1:10-1:100

## Applications

**Tested Applications:**

IF, IP, WB, ELISA

**Cited Applications:**

IHC, WB

**Species Specificity:**

human, mouse, rat, pig

**Cited Species:**

rat

**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,

**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
Xing-Lian Duan	31962145	Neuroscience	WB,IHC
Fengjin Hao	30318007	CNS Neurol Disord Drug Targets	

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

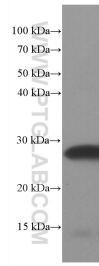
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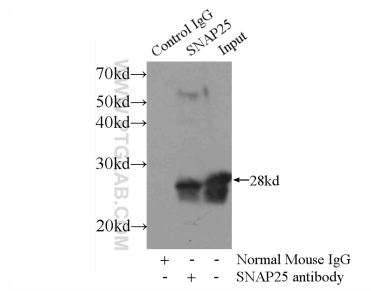
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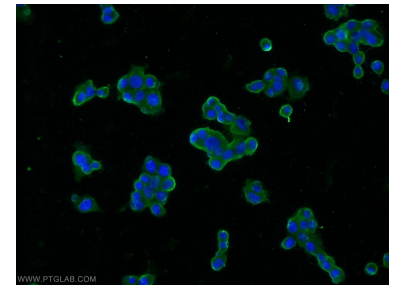
## Selected Validation Data



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.



Immunofluorescent analysis of PC-12 cells using 60159-1-Ig (SNAP25 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).