

For Research Use Only

# SNAP25 Polyclonal antibody

Catalog Number:14903-1-AP

Featured Product

24 Publications



## Basic Information

**Catalog Number:**

14903-1-AP

**Concentration:**

650 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG6695

**GenBank Accession Number:**

BC010647

**GeneID (NCBI):**

6616

**UNIPROT ID:**

P60880

**Full Name:**

synaptosomal-associated protein,

25kDa

**Calculated MW:**

23 kDa

**Observed MW:**

25-27 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:10000-1:100000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

WB : mouse brain tissue, SH-SY5Y cells, rat brain tissue

IP : mouse brain tissue,

IF/ICC : SH-SY5Y cells, 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. In addition, it has been shown that inhibition of neurosecretion by AX type E can be rescued by a SNAP-25 C-terminal peptide, probably by initiating the formation of a fusion competent SNARE complex.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tianzhi Li	36173100	Elife	WB
Qingyang Zhang	34551807	Mol Neurodegener	WB
Hugo Ramos	34944588	Biomedicines	WB,IF

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

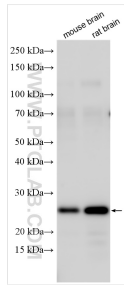
T: 4006900926

E: Proteintech-CN@ptglab.com

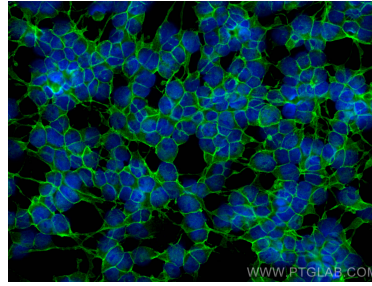
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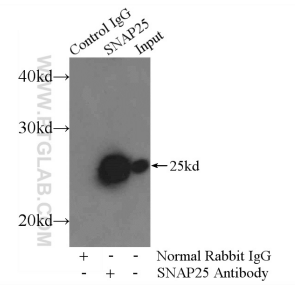
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14903-1-AP (SNAP25 antibody) at dilution of 1:60000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using SNAP25 antibody (14903-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-SNAP25 (IP:14903-1-AP, 3ug; Detection:14903-1-AP 1:3500) with mouse brain tissue lysate 3600ug.