

For Research Use Only

SNAP25 Polyclonal antibody

Catalog Number: 30003-1-AP



Basic Information

Catalog Number:

30003-1-AP

Size:

400 µg/ml

Source:

Goat

Isotype:

IgG

GenBank Accession Number:

BC010647

GeneID (NCBI):

6616

UNIPROT ID:

P60880

Full Name:

synaptosomal-associated protein,
25kDa

Calculated MW:

23 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

ELISA

Species Specificity:

human, mouse

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 Botox E can be rescued by a SNAP-25 C-terminal peptide, probably by initiating the formation of a fusion competent SNARE complex.

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

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

W: ptgcn.com

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