

For Research Use Only

SNAP25 Polyclonal antibody

Catalog Number: 30003-1-Ig **2 Publications**



Basic Information

Catalog Number: 30003-1-Ig	GenBank Accession Number: BC010647	Purification Method: Protein A purification
Size: 400 µg/ml	GeneID (NCBI): 6616	
Source: Goat	UNIPROT ID: P60880	
Isotype: IgG	Full Name: synaptosomal-associated protein, 25kDa	
	Calculated MW: 23 kDa	

Applications

Tested Applications:
ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse

Cited Species:
rat, 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhonghong Zhang	38215890	Free Radic Biol Med	WB
Wen-Ming Zhou	37336823	Neurochem Res	WB,IF

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:

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Selected Validation Data