For Research Use Only

SNAP25 Recombinant antibody

Catalog Number:83259-1-RR



Purification Method:

Basic Information

Catalog Number: GenBank Accession Number:

83259-1-RR BC010647 Protein A purification GeneID (NCBI): Size: CloneNo.:

100ul, Concentration: 1000 ug/ml by 6616 240069A1 Nanodrop:

UNIPROT ID: Recommended Dilutions: P60880 IHC 1:50-1:500 Rabbit IF/ICC 1:125-1:500 Full Name:

Isotype: synaptosomal-associated protein,

25kDa IgG

Immunogen Catalog Number: Calculated MW: AG6695 23 kDa

Applications

Tested Applications:

IHC, IF/ICC, FC (Intra), ELISA IHC: mouse brain tissue, Species Specificity: IF/ICC: PC-12 cells,

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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 postdocking 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.

Positive Controls:

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

in USA), or 1(312) 455-8498 (outside USA)

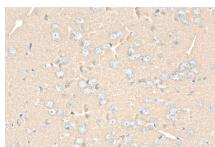
W: ptglab.com

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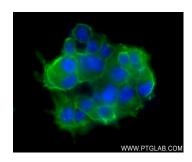
Selected Validation Data



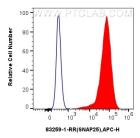
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 83259-1-RR (SNAP25 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



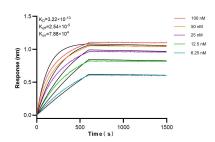
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 83259-1-RR (SNAP25 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed PC-12 cells using SNAP antibody (83259-1-RR, Clone: 240069A1) at dilution of 1:250 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10^6 PC-12 cells were intracellularly stained with 0.25 ug SNAP25 Recombinant antibody (83259-1-RR, Clone:240069A1) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLL) kinetic assays of 83259-1-RR against Human SNAP25 were performed. The affinity constant is 0.322 nM.