

SNAP25 Recombinant antibody

Catalog Number: 83259-1-RR

Basic Information

Catalog Number: 83259-1-RR	GenBank Accession Number: BC010647	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 6616	CloneNo.: 240069A1
Source: Rabbit	UNIPROT ID: P60880	Recommended Dilutions: IHC 1:50-1:500 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: synaptosomal-associated protein, 25kDa	
Immunogen Catalog Number: AG6695	Calculated MW: 23 kDa	

Applications

Tested Applications: IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse, rat	IHC : mouse brain tissue, IF/ICC : PC-12 cells,

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 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.

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

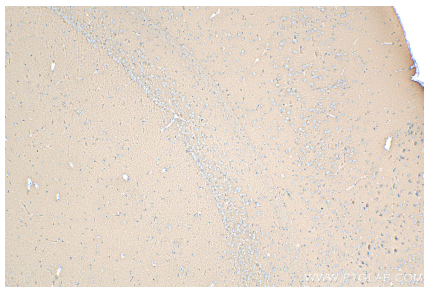
For technical support and original validation data for this product please contact:

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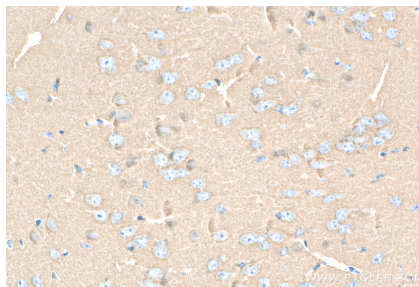
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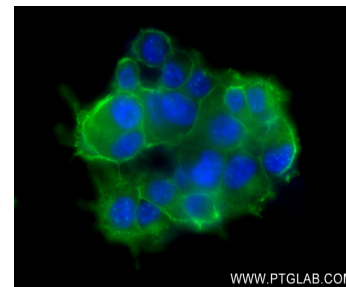
Selected Validation Data



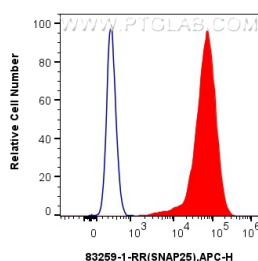
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83259-1-RR (SNAP25 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



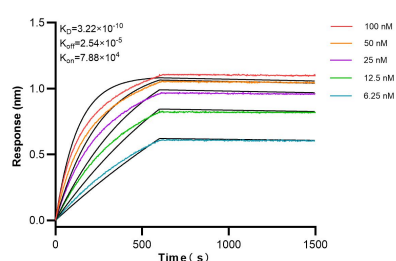
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83259-1-RR (SNAP25 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1x10⁶ 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 (BLI) kinetic assays of 83259-1-RR against Human SNAP25 were performed. The affinity constant is 0.322 nM.