

Product Name: SNAP 25 Rabbit Polyclonal Antibody
Catalog #: APRab18044



Summary

Production Name	SNAP 25 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SNAP-25
Alternative Names	SNAP25; SNAP; Synaptosomal-associated protein 25; SNAP-25; Super protein; SUP; Synaptosomal-associated 25 kDa protein
Gene ID	6616.0
SwissProt ID	P60880.The antiserum was produced against synthesized peptide derived from human SNAP25. AA range:151-200

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	25kDa

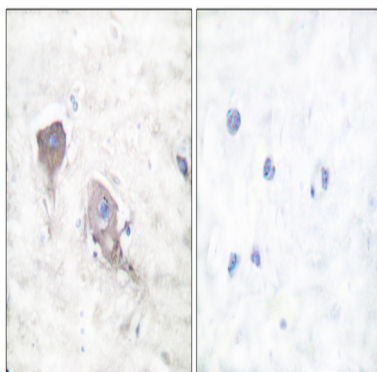
Background

Synaptic vesicle membrane docking and fusion is mediated by SNAREs (soluble N-ethylmaleimide-sensitive factor attachment protein receptors) located on the vesicle membrane (v-SNAREs) and the target membrane (t-SNAREs). The assembled v-SNARE/t-SNARE complex consists of a bundle of four helices, one of which is supplied by v-SNARE and the other three by t-SNARE. For t-SNAREs on the plasma membrane, the protein syntaxin supplies one helix and the protein encoded by this gene contributes the other two. Therefore, this gene product is a presynaptic plasma membrane protein involved in the regulation of neurotransmitter release. Two alternative transcript variants encoding different protein isoforms have been described for this gene. [provided by RefSeq, Jul 2008],alternative products:Isoforms differ by the usage of two alternative homologous exons (5a and 5b) which encode for positions 56 to 94 and differ only in 9 positions out of 39,function:t-SNARE involved in the molecular regulation of neurotransmitter release. May play an important role in the synaptic function of specific neuronal systems. Associates with proteins involved in vesicle docking and membrane fusion. Regulates plasma membrane recycling through its interaction with CENPF.,miscellaneous:When cloned and expressed in Eschericia coli, where protein palmitoylation does not occur, Cys-85, Cys-88, Cys-90 and Cys-92 in the protein sequence readily form an iron-sulfur cluster instead.,PTM:Palmitoylated. Cys-85 appears to be the main site, and palmitoylation is required for membrane association.,similarity:Belongs to the SNAP-25 family.,similarity:Contains 2 t-SNARE coiled-coil homology domains.,subcellular location:Membrane association requires palmitoylation. Expressed throughout cytoplasm, concentrating at the perinuclear region.,subunit:Part of the SNARE core complex containing SNAP25, VAMP2 and STX1A. This complex binds CPLX1. Interacts with CENPF, TRIM9, RIMS1, SNAP25BP, OTOF and HGS. Binds STXBP6. Found in a ternary complex with STX1A and VAMP8. Found in a complex containing SYT1, SV2B and syntaxin-1.,tissue specificity:Neurons of the neocortex, hippocampus, piriform cortex, anterior thalamic nuclei, pontine nuclei, and granule cells of the cerebellum.,

Research Area

SNARE interactions in vesicular transport;

Image Data

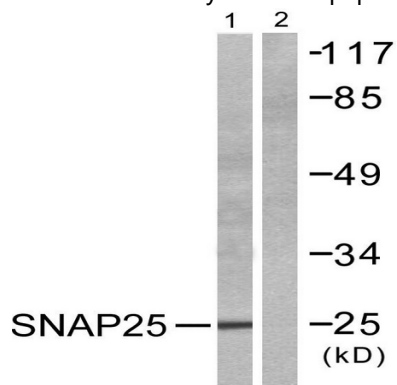


Immunohistochemistry analysis of paraffin-embedded human brain tissue, using SNAP25 Antibody. The picture on the right

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is blocked with the synthesized peptide.



Western blot analysis of lysates from Raw264.7 cells, treated with EGF 200ng/ml 30 ' , using SNAP25 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.