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SNAP25 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP18126c

Specification

SNAP25 Antibody (Center) Blocking Peptide - Product Information

Primary Accession	P60880

SNAP25 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 6616

Other Names
Synaptosomal-associated protein 25, SNAP-25, Super protein, SUP, Synaptosomal-associated 25 kDa protein, SNAP25, SNAP

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SNAP25 Antibody (Center) Blocking Peptide - Protein Information

Name SNAP25

Synonyms SNAP

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. Modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 in pancreatic beta cells.

Cellular Location
Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P60879}. Cell membrane {ECO:0000250|UniProtKB:P60881}; Lipid-anchor {ECO:0000250|UniProtKB:P60879}. Synapse, synaptosome {ECO:0000250|UniProtKB:P60879}. Photoreceptor inner segment {ECO:0000250|UniProtKB:P60879}. Note=Membrane association requires palmitoylation. Expressed throughout cytoplasm, concentrating at the perinuclear region. Colocalizes with KCNB1 at the cell membrane (By similarity). Colocalizes with PLCL1 at the cell membrane (By similarity). {ECO:0000250|UniProtKB:P60879, ECO:0000250|UniProtKB:P60881}

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Tissue Location
Neurons of the neocortex, hippocampus, piriform cortex, anterior thalamic nuclei, pontine nuclei, and granule cells of the cerebellum

SNAP25 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SNAP25 Antibody (Center) Blocking Peptide - Images

SNAP25 Antibody (Center) Blocking Peptide - Background

Synaptic vesicle membrane docking and fusion is mediatedby SNAREs (soluble N-ethylmaleimide-sensitive factor attachmentprotein receptors) located on the vesicle membrane (v-SNAREs) andthe target membrane (t-SNAREs). The assembled v-SNARE/t-SNAREcomplex consists of a bundle of four helices, one of which issupplied by v-SNARE and the other three by t-SNARE. For t-SNAREs onthe plasma membrane, the protein syntaxin supplies one helix andthe protein encoded by this gene contributes the other two.Therefore, this gene product is a presynaptic plasma membraneprotein involved in the regulation of neurotransmitter release. Twoalternative transcript variants encoding different protein isoformshave been described for this gene.

SNAP25 Antibody (Center) Blocking Peptide - References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)Greaves, J., et al. J. Biol. Chem. 285(32):24629-24638(2010)Oner, O., et al. J Atten Disord (2010) In press :Zhang, H., et al. Eur. J. Paediatr. Neurol. (2010) In press :Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :