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Phospho-SNAP25(T138) Blocking Peptide

Synthetic peptide
Catalog # BP15001a

Specification

Phospho-SNAP25(T138) Blocking Peptide - Product Information

Primary Accession	P60880
Other Accession	P60881, P60879, P60878, Q17QQ3, Q6PC54, NP_003072.2

Phospho-SNAP25(T138) 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

Target/Specificity
The synthetic peptide sequence is selected from aa 133-143 of HUMAN SNAP25

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.

Phospho-SNAP25(T138) Blocking Peptide - Protein Information

Name SNAP25

Synonyms SNAP

Phospho-SNAP25(T138) Blocking Peptide - Background

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.

Phospho-SNAP25(T138) Blocking Peptide - References

Mohrmann, R., et al. Science 330(6003):502-505(2010)
Tsai, Y.C., et al. Proc. Natl. Acad. Sci. U.S.A. 107(38):16554-16559(2010)
Condliffe, S.B., et al. J. Biol. Chem. 285(32):24968-24976(2010)
Weber, J.P., et al. EMBO J. 29(15):2477-2490(2010)
Walter, A.M., et al. J. Cell Biol. 188(3):401-413(2010)

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}. Cell junction, 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}

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

Phospho-SNAP25(T138) Blocking Peptide - Protocols

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

- Blocking Peptides