10320 Camino Santa Fe, Suite G
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Phospho-SNAP25(T138) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP15001a

Specification

Phospho-SNAP25(T138) Antibody - Product Information

Application	**DB,E**
Primary Accession	P60880
Other Accession	P60881, P60879, P60878, Q17QQ3, Q6PC54, NP_003072.2
Reactivity	**Human**
Predicted	**Zebrafish, Bovine, Chicken, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**23315**

Phospho-SNAP25(T138) Antibody - Additional Information

Gene ID 6616

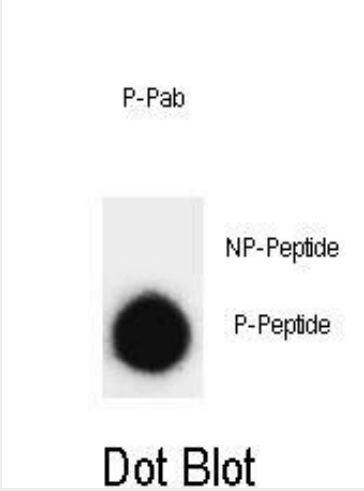
Other Names
Synaptosomal-associated protein 25, SNAP-25, Super protein, SUP, Synaptosomal-associated 25 kDa protein, SNAP25, SNAP

Target/Specificity
This SNAP25 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T138 of human SNAP25.

Dilution
DB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage



Dot blot analysis of Phospho-SNAP25-pT138 Antibody Phospho-specific Pab (Cat. #AP15001a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-SNAP25(T138) Antibody - 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) Antibody - 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)

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-SNAP25(T138) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-SNAP25(T138) Antibody - 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}. 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

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)

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Phospho-SNAP25(T138) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-SNAP25(T138) Antibody - Citations

- Inhibition of protein phosphatase-1 and -2A by ellagitannins: structure-inhibitory potency relationships and influences on cellular systems.
- Myosin phosphatase and RhoA-activated kinase modulate neurotransmitter release by regulating SNAP-25 of SNARE complex.