Immunotag™ SNAP 25 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT4352
Product Description	Immunotag™ SNAP 25 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SNAP 25
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from SNAP 25, at AA range: 120-200
Specificity	SNAP 25 Polyclonal Antibody detects endogenous levels of SNAP 25 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	SNAP25
Accession No.	P60880 P60879 P60881
Alternate Names	SNAP25; SNAP; Synaptosomal-associated protein 25; SNAP-25; Super protein; SUP; Synaptosomal-associated 25 kDa protein

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Description	synaptosome associated protein 25(SNAP25) Homo sapiens 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],
Cell Pathway/ Category	SNARE interactions in vesicular transport,
Protein Expression	Amygdala,Brain,Eye,Fetal brain,Frontal cortex,Hippocampus,Skeletal
Subcellular Localization	cytoplasm,trans-Golgi network,cytosol,plasma membrane,synaptic vesicle,voltage-gated potassium channel complex,membrane,cell junction,growth cone,BLOC-1 complex,SNARE complex,vesicle,presynaptic membra
Protein Function	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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.