Datasheet for ABIN7505231

SNAP25 Protein (AA 1-206) (His tag)

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Overview

Quantity:	100 µg
Target:	SNAP25
Protein Characteristics:	AA 1-206
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SNAP25 protein is labelled with His tag.

Product Details

Sequence:	Met 1-Gly 206
Characteristics:	A DNA sequence encoding the Human SNAP25 protein (P60880-2) (Met 1-Gly 206) was expressed with a N-His&C-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	SNAP25
Alternative Name:	SNAP25 (SNAP25 Products)
Background:	Abbreviation: SNAP25 Target Synonym: Synaptosomal-associated protein 25;SNAP25;SNAP-25;Super protein;Synaptosomal-associated 25 kDa protein Background: Synaptosomal-associated protein 25, also known as Super protein, Synaptosomal-

Target Details

	associated 25 kDa protein, SNAP25 and SNAP, is a cytoplasm and cell membrane protein which belongs to the SNAP-25 family. SNAP25 / SUP contains 2 t-SNARE coiled-coil homology domains. SNAP25 / SUP is a membrane bound protein anchored to the cytosolic face of membranes via palmitoyl side chains in the middle of the molecule. SNAP25 / SUP protein is a component of the SNARE complex, which is proposed to account for the specificity of membrane fusion and to directly execute fusion by forming a tight complex that brings the synaptic vesicle and plasma membranes together. SNAP25 / SUP is a Q-SNARE protein contributing two α-helices in the formation of the exocytotic fusion complex in neurons where it assembles with syntaxin-1 and synaptobrevin. SNAP25 / SUP is involved in the molecular regulation of neurotransmitter release. It may play an important role in the synaptic function of specific neuronal systems. SNAP25 / SUP associates with proteins involved in vesicle docking and membrane fusion. SNAP25 / SUP regulates plasma membrane recycling through its interaction with CENPF. SNAP25 / SUP inhibits P/Q- and L-type voltage-gated calcium channels located presynaptically and interacts with the synaptotagmin C2B domain in Ca2+-independent fashion. In glutamatergic synapses SNAP25 / SUP decreases the Ca2+ responsiveness, while it is naturally absent in GABAergic synapses.
Molecular Weight:	Calculated MW: 22.55 kDa Observed MW: 31 kDa
UniProt:	P60880-2
Pathways:	Positive Regulation of Peptide Hormone Secretion, Hormone Transport, Synaptic Vesicle Exocytosis, Dicarboxylic Acid Transport

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

Handling

	samples are stable at < -20°C for 3 months.
Expiry Date:	12 months