

DESCRIPTION

Species Reactivity	Human
Specificity	Detects SNAP-25 in direct ELISA.
Source	Monoclonal Mouse IgG ₃ Clone # 1065704
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SNAP-25 Asp140-Gly206 Accession # P60880
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

SNAP25 (Synaptosomal associated protein of 25 kDa; also SUP) is a cytosolic 24-29 kDa member of the SNAP25 family of proteins. It is expressed in neurons, β-cells, and adrenal chromaffin cells. SNAP25 is involved in vesicle exocytosis, where two presynaptic SNAP25, and one syntaxin-1 molecule associates with vesicle membrane VAMP2 to form a α-helix via a zipper-like mechanism. This approximates two membranes, which subsequently fuse to create a pore. Human SNAP25b is 206 amino acids (aa) in length. It contains two t-SNARE coiled-coil homology domains (aa 19-81 and 140-202) and a proteolytic cleavage site at Arg180:Ile181. Palmitoylation occurs between aa 85-92; phosphorylation occurs on Thr138. There are three isoform variants. One shows nine aa changes over aa 58-89 (isoform a), a second shows a 30 aa substitution for aa 1-94, while a third contains an alternative start site at Met64. Full-length human and mouse SNAP25 are identical in amino acid sequence.

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