

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat SNAP25 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human SNAP23 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SNAP25 Asp140-Gly206 Accession # P60880
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.