

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | 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.                                                                                                     |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human SNAP25<br>Asp140-Gly206<br>Accession # P60880                                                                                                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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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