SNAP 25

**Cat.No. 111 111; Monoclonal mouse antibody, 50 µg purified IgG (lyophilized)**

### Data Sheet

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>50 µg purified IgG, lyophilized. For reconstitution add 50 µl H2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | **WB**: yes (see remarks)  
**IP**: yes (see remarks)  
**ICC**: yes (see remarks)  
**IHC-P/FFPE**: yes (see remarks)  
**ELISA**: yes (see remarks) |
| Clone                  | 71.2 |
| Subtype               | IgG1 (κ light chain) |
| Immunogen             | Recombinant protein corresponding to AA 1 to 206 from rat SNAP25B (UniProt Id: P60881-1) |
| Epitop                | Epitop: AA 1 to 20 from rat SNAP25B (UniProt Id: P60881-1) |
| Reactivity            | Reacts with: human (P60880), rat (P60881), mouse (P60879), mammals, bovine.
No signal: zebrafish.
Other species not tested yet. |
| Specificity           | Specific for SNAP 25. |
| Remarks               | **IP**: Immunoprecipitation not quantitative, appears to depend on the binding status of the protein.  
**ELISA**: Suitable as capture antibody for sandwich-ELISA with cat. no. 111 002 as detector antibody (protocol for sandwich-ELISA).  
Recognizes the Botulinum neurotoxin A and E cleavage products.  
Recognizes splice variants SNAP 25A and B. |

**Selected References SYSY Antibodies**

A aberrant function and structure of retinal ribbon synapses in the absence of complexin 3 and complexin 4.
Reim K, Regus-Leidig H, Ammermüller J, El-Kordi A, Radyushkin K, Ehrenreich H, Brandsdötz JH, Brose N
**WB, IHC; tested species: mouse**

**Positively charged amino acids at the SNAP-25 C terminus determine fusion rates, fusion pore properties, and energetics of tight SNARE complex zipper.**
Fang Q, Zhao Y, Herbst AD, Kim BN, Lindau M
**ICC; tested species: cow**

**Synapsin-dependent reserve pool of synaptic vesicles supports replenishment of the readily releasable pool under intense synaptic transmission.**
Vasileva M, Horstmann H, Geumann C, Gitter D, Kuner T
**ELISA**

**The N-ethylmaleimide-sensitive fusion protein and alpha-SNAP induce a conformational change in syntaxin.**
Hanson PJ, Otto H, Barton N, Jahn R
**IP**

**Rapid and Sensitive Nano-immunosensors for Botulinum.**
Cheng HP, Chuang HS
**WB; tested species: human**

**Phosphorylated SNAP25 in the CA1 regulates morphine-associated contextual memory retrieval via increasing GluN2B-NMDAR surface localization.**
**WB; tested species: rat**

**Identification and characterization of a novel botulinum neurotoxin.**
**WB, tested species: mouse**

The neural cell adhesion molecule promotes maturation of the presynaptic endocytotic machinery by switching synaptic vesicle recycling from adaptor protein 3 (AP-3)- to AP-2-dependent mechanisms.
Shetty A, Snytnik V, Leshchyns’ka I, Puchkow D, Haucke V, Schachner M
**WB**

Small-scale isolation of synaptic vesicles from mammalian brain.
Ahmed S, Holt M, Riedel D, Jahn R
**WB; tested species: mouse**

Dvl regulates endo- and exocytotic processes through binding to synaptotagmin.
**WB**

Loss of SNAP-25 and rabphilin 3a in sensory-motor cortex in Huntington’s disease.
**WB; tested species: human**

The expression pattern and assembly profile of synaptic membrane proteins in ribbon synapses of the developing mouse retina.
von Kriegstein K, Schmitz F
**IHC**

Inhibition of SNARE complex assembly differentially affects kinetic components of exocytosis.
Xu T, Rammber R, Margittai M, Artlejo AR, Neher E, Jahn R

**Selected General References**

**Mechanisms of synaptic vesicle exocytosis.**
Lin RC, Scheller RH

**Regional and developmental brain expression patterns of SNAP25 splice variants.**
Prescott GR, Chamberlain LH

**Membrane fusion and exocytosis.**
Jahn R, Südhof TC

A structural change occurs upon binding of syntaxin to SNAP-25.
Fasshauer D, Bruns D, Shen B, Jahn R, Brünger AT