

## Syntaxin 3

Cat.No. 110 033; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> yes <b>ICC:</b> 1 : 100 <b>IHC:</b> 1 : 2500 <b>IHC-P/FFPE:</b> 1 : 200
Immunogen	Recombinant protein corresponding to AA 1 to 260 from rat Syntaxin3 (UniProt Id: Q08849)
Reactivity	Reacts with: human (Q13277), rat (Q08849), mouse (Q64704), hamster, zebrafish. Other species not tested yet.
Specificity	Specific for syntaxin 3.
matching control	110-3P

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

**Syntaxin 3**, a member of the SNARE family of proteins, is related to syntaxin 1. While often co-expressed with syntaxins 2 and 4 within the same cell type, its membrane localization is usually different, for instance in epithelial cells or in the exocrine pancreas. Like syntaxins 1, 2 and 4 it appears to be involved in the fusion of transport vesicles with the plasma membrane.

### Selected References SYSY Antibodies

- SNARE protein expression and localization in human cytotoxic T lymphocytes.  
Pattu V, Qu B, Schwarz EC, Strauss B, Weins L, Bhat SS, Halimani M, Marshall M, Rettig J, Hoth M  
European journal of immunology (2012) 42(2): 470-5. **ICC**
- Two ribeye genes in teleosts: the role of Ribeye in ribbon formation and bipolar cell development.  
Wan L, Almers W, Chen W  
The Journal of neuroscience : the official journal of the Society for Neuroscience (2005) 25(4): 941-9. **IHC; tested species: zebrafish**
- Distribution of synaptic vesicle proteins in the mammalian retina identifies obligatory and facultative components of ribbon synapses.  
Von Kriegstein K, Schmitz F, Link E, Südhof TC  
The European journal of neuroscience (1999) 11(4): 1335-48. **WB; tested species: cow**
- Phosphorylation of syntaxin-3 at Thr 14 negatively regulates exocytosis in RBL-2H3 mast cells.  
Tadokoro S, Shibata T, Inoh Y, Amano T, Nakanishi M, Hirashima N, Utsunomiya-Tate N  
Cell biology international (2016) 40(5): 589-96. **WB; tested species: rat**
- The major myelin-resident protein PLP is transported to myelin membranes via a transcytotic mechanism: involvement of sulfatide.  
Baron W, Ozgen H, Klunder B, de Jonge JC, Nomden A, Plat A, Trifilieff E, de Vries H, Hoekstra D  
Molecular and cellular biology (2015) 35(1): 288-302. **WB**
- Complexin 2 modulates vesicle-associated membrane protein (VAMP) 2-regulated zymogen granule exocytosis in pancreatic acini.  
Falkowski MA, Thomas DD, Groblewski GE  
The Journal of biological chemistry (2010) 285(46): 35558-66. **WB**

### Selected General References

- Membrane fusion and exocytosis.  
Jahn R, Südhof TC  
Annual review of biochemistry (1999) 68: 863-911.
- The syntaxin family of vesicular transport receptors.  
Bennett MK, García-Arrarás JE, Elferink LA, Peterson K, Fleming AM, Hazuka CD, Scheller RH  
Cell (1993) 74(5): 863-73.