

## Syntaxin 18

Cat.No. 110 183; 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 PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> 1 : 100 <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 55 to 313 from human Syntaxin18 (UniProt Id: Q9P2W9)
Reactivity	Reacts with: human (Q9P2W9), rat (Q68FW4), mouse (Q8VDS8). Other species not tested yet.
Specificity	Specific for syntaxin 18, no cross reactivity to other syntaxins.
matching control	110-18P

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

Distinct sets of SNARE proteins mediate membrane-membrane fusion events between different intracellular compartments. **Syntaxin 18** is a Q-SNARE associated with the endoplasmic reticulum (ER) and has been shown to interact with P 31/Use 1, BNIP and Sec 22b. In addition syntaxin 18 is involved in the regulated formation of phagosomes.

### Selected References SYSY Antibodies

Identification of Rab41/6d Effectors Provides an Explanation for the Differential Effects of Rab41/6d and Rab6a/a' on Golgi Organization.

Liu S, Majeed W, Kudlyk T, Lupashin V, Storrie B  
Frontiers in cell and developmental biology (2016) 4: 13. **ICC**

A novel cellular stress response characterised by a rapid reorganisation of membranes of the endoplasmic reticulum.  
Varadarajan S, Bampton ET, Smalley JL, Tanaka K, Caves RE, Butterworth M, Wei J, Pellicchia M, Mitcheson J, Gant TW, Dinsdale D, et al.

Cell death and differentiation (2012) 19(12): 1896-907. **WB**

### Selected General References

Involvement of syntaxin 18, an endoplasmic reticulum (ER)-localized SNARE protein, in ER-mediated phagocytosis.

Hatsuzawa K, Tamura T, Hashimoto H, Hashimoto H, Yokoya S, Miura M, Nagaya H, Wada I  
Molecular biology of the cell (2006) 17(9): 3964-77.

RINT-1 regulates the localization and entry of ZW10 to the syntaxin 18 complex.

Arasaki K, Taniguchi M, Tani K, Tagaya M  
Molecular biology of the cell (2006) 17(6): 2780-8.

Syntaxin 18, a SNAP receptor that functions in the endoplasmic reticulum, intermediate compartment, and cis-Golgi vesicle trafficking.

Hatsuzawa K, Hirose H, Tani K, Yamamoto A, Scheller RH, Tagaya M  
The Journal of biological chemistry (2000) 275(18): 13713-20.