

## Syntaxin 4

Cat.No. 110 041; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

### Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. For reconstitution add 100 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> yes <b>ICC:</b> 1 : 100 <b>IHC:</b> not recommended <b>IHC-P/FFPE:</b> not tested yet
Clone	139.2
Subtype	IgG1 (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 273 from rat Syntaxin4 (UniProt Id: Q08850)
Reactivity	Reacts with: rat (Q08850), mouse (P70452). No signal: zebrafish. Other species not tested yet.
Specificity	Specific for syntaxin 4.
matching control	110-4P

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

**Syntaxin 4**, a member of the SNARE family of proteins, is related to syntaxin 1. Like syntaxin 2 it is predominantly localized to the plasma membrane of a wide variety of cells. Similar to syntaxins 1, 2, and 3, it appears to be involved in the fusion of transport vesicles with the plasma membrane.

### Selected References SYSY Antibodies

Hydrophobic mismatch sorts SNARE proteins into distinct membrane domains.  
Milovanovic D, Honigsmann A, Koike S, Göttfert F, Pähler G, Junius M, Müller S, Diederichsen U, Janshoff A, Grubmüller H, Risselada HJ, et al.  
Nature communications (2015) 6: 5984. **ICC**

LuTHy: a double-readout bioluminescence-based two-hybrid technology for quantitative mapping of protein-protein interactions in mammalian cells.  
Trepte P, Kruse S, Kostova S, Hoffmann S, Buntru A, Tempelmeier A, Secker C, Diez L, Schulz A, Klockmeier K, Zenkner M, et al.  
Molecular systems biology (2018) 14(7): e8071. **ICC; tested species: mouse**

### Selected General References

Identification of SNAREs involved in regulated exocytosis in the pancreatic acinar cell.  
Hansen NJ, Antonin W, Edwardson JM  
The Journal of biological chemistry (1999) 274(32): 22871-6.

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.