

Syntaxin 4

Cat.No. 110 043; 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 ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 up to 1 : 5000 (AP staining) IP: yes ICC: 1 : 100 IHC: not tested yet IHC-P/FFPE: 1 : 500 EM: yes
Immunogen	Recombinant protein corresponding to AA 1 to 273 from rat Syntaxin4 (UniProt Id: Q08850)
Reactivity	Reacts with: human (Q12846), rat (Q08850), mouse (P70452), hamster. 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

Syntaxin 4 is concentrated on plasma membrane of astrocytes.
Tao-Cheng JH, Pham A, Yang Y, Winters CA, Gallant PE, Reese TS
Neuroscience (2015) 286: 264-71. **WB, EM**

Choroid plexus epithelial cells express the adhesion protein P-cadherin at cell-cell contacts and syntaxin-4 in the luminal membrane domain.

Christensen IB, Mogensen EN, Damkier HH, Praetorius J
American journal of physiology. Cell physiology (2018) 314(5): C519-C533. **IHC-P; tested species: mouse**

Blockade of the SNARE protein syntaxin 1 inhibits glioblastoma tumor growth.
Ulloa F, González-Juncà A, Meffre D, Barrecheguren PJ, Martínez-Mármol R, Pazos I, Olivé N, Cotrufo T, Seoane J, Soriano E
PloS one (2015) 10(3): e0119707. **WB**

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**

S-acylation of the Insulin-Responsive Aminopeptidase (IRAP): Quantitative analysis and Identification of Modified Cysteines.
Werno MW, Chamberlain LH
Scientific reports (2015) 5: 12413. **WB**

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.