

Syntaxin 3

Cat.No. 110 032; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) (see remarks) IP: yes ICC: 1 : 100 IHC: 1 : 2500 IHC-P/FFPE: not tested yet
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, pig, zebrafish. Other species not tested yet.
Specificity	Specific for syntaxin 3.
matching control	110-3P
Remarks	WB: The affinity purified antibody (cat. no. 110 033) gives stronger signals in Western blots.

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

- Sunday driver interacts with two distinct classes of axonal organelles.
Abe N, Almenar-Queralt A, Lillo C, Shen Z, Lozach J, Briggs SP, Williams DS, Goldstein LS, Cavalli V
The Journal of biological chemistry (2009) 284(50): 34628-39. **WB, IP, IHC**
- SNAREs Interact with Retinal Degeneration Slow and Rod Outer Segment Membrane Protein-1 during Conventional and Unconventional Outer Segment Targeting.
Zulliger R, Conley SM, Mwoyosvi ML, Stuck MW, Azadi S, Naash MI
PloS one (2015) 10(9): e0138508. **WB, IP**
- Axonal BACE1 dynamics and targeting in hippocampal neurons: a role for Rab11 GTPase.
Buggia-Prévot V, Fernandez CG, Riordan S, Vetrivel KS, Roseman J, Waters J, Bindokas VP, Vassar R, Thinakaran G
Molecular neurodegeneration (2014) 9: 1. **ICC**
- Identification of a Botulinum Neurotoxin-like Toxin in a Commensal Strain of Enterococcus faecium.
Zhang S, Lebreton F, Mansfield MJ, Miyashita SI, Zhang J, Schwartzman JA, Tao L, Masuyer G, Martínez-Carranza M, Stenmark P, Gilmore MS, et al.
Cell host & microbe (2018) 23(2): 169-176.e6. **WB; tested species: mouse**
- Vesicle associated membrane protein 8 (VAMP8)-mediated zymogen granule exocytosis is dependent on endosomal trafficking via the constitutive-like secretory pathway.
Messenger SW, Falkowski MA, Thomas DD, Jones EK, Hong W, Gaisano HY, Giasano HY, Boulis NM, Groblewski GE
The Journal of biological chemistry (2014) 289(40): 28040-53. **WB**
- Myosin Ia is required for CFTR brush border membrane trafficking and ion transport in the mouse small intestine.
Kravtsov DV, Caputo C, Collaco A, Hoekstra N, Egan ME, Mooseker MS, Ameen NA
Traffic (Copenhagen, Denmark) (2012) 13(8): 1072-82. **IHC; tested species: mouse**
- How pig sperm prepares to fertilize: stable acrosome docking to the plasma membrane.
Tsai PS, Garcia-Gil N, van Haeften T, Gadella BM
PloS one (2010) 5(6): e11204. **WB; tested species: pig**
- A role for VAMP8/endobrevin in surface deployment of the water channel aquaporin 2.
Wang CC, Ng CP, Shi H, Liew HC, Guo K, Zeng Q, Hong W
Molecular and cellular biology (2010) 30(1): 333-43. **WB**
- Loss of the zymogen granule protein syncollin affects pancreatic protein synthesis and transport but not secretion.
Antonin W, Wagner M, Riedel D, Brose N, Jahn R
Molecular and cellular biology (2002) 22(5): 1545-54. **WB; tested species: mouse**
- Rab3D is not required for exocrine exocytosis but for maintenance of normally sized secretory granules.
Riedel D, Antonin W, Fernandez-Chacon R, Alvarez de Toledo G, Jo T, Geppert M, Valentijn JA, Valentijn K, Jamieson JD, Südhof TC, Jahn R, et al.
Molecular and cellular biology (2002) 22(18): 6487-97. **WB; tested species: mouse**

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.