Synaptic Systems

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Syntaxin 2

Cat.No. 110 022; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H_2O, then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (AP staining) **IP**: yes **ICC**: 1 : 100 **IHC**: yes **IHC-P/FFPE**: yes
Immunogen	Recombinant protein corresponding to AA 1 to 265 from rat Syntaxin2 (UniProt Id: P50279)
Reactivity	Reacts with: human (P32856), rat (P50279), mouse (Q00262), hamster, pig, zebrafish. Other species not tested yet.
Specificity	Specific for syntaxin 2
matching control	110-2P

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

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

Selected References SYSY Antibodies

SNARE expression and localization in renal epithelial cells suggest mechanism for variability of trafficking phenotypes.
Li X, Low SH, Miura M, Weimbs T
American journal of physiology. Renal physiology (2002) 283(5): F1111-22. **WB, IHC; tested species: rat**

Legionella pneumophila promotes functional interactions between plasma membrane syntaxins and Sec22b.
Arasaki K, Roy CR
Traffic (Copenhagen, Denmark) (2010) 11(5): 587-600. **WB, ICC; tested species: human**

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, IP; tested species: pig**

A molecular basis underlying differences in the toxicity of botulinum serotypes A and E.
Bajohrs M, Rickman C, Binz T, Davletov B
EMBO reports (2004) 5(11): 1090-5. **ICC, WB; tested species: rat**

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**

Developmentally dynamic colocalization patterns of DSCAM with adhesion and synaptic proteins in the mouse retina.
de Andrade GB, Kunzelman L, Merrill MM, Fuerst PG
Molecular vision (2014) 20: 1422-33. **IHC**

Distribution of plasma membrane-associated syntaxins 1 through 4 indicates distinct trafficking functions in the synaptic layers of the mouse retina.
Sherry DM, Mitchell R, Standifer KM, du Plessis B
BMC neuroscience (2006) 7: 54. **IHC; tested species: mouse**

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.

Epimorphin: a mesenchymal protein essential for epithelial morphogenesis.
Hirai Y, Takebe K, Takashina M, Kobayashi S, Takeichi M
Cell (1992) 69(3): 471-81.