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Syntaxin 8

Cat.No. 110 083; 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 : 100 up to 1 : 5000 (AP staining) IP: yes ICC: 1 : 100 up to 1 : 500 IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 215 from rat Syntaxin8 (UniProt Id: Q9Z2Q7)
Reactivity	Reacts with: human (Q9UNK0), rat (Q9Z2Q7), mouse (O88983), hamster. No signal: zebrafish. Other species not tested yet.
Specificity	Specific for syntaxin 8.
matching control	110-8P

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

Syntaxin 8, a member of the SNARE family of proteins, is functionally related to the C-terminus of SNAP 25. Syntaxin 8 is localized to endosomal membranes of a wide variety of cells and is involved in the fusion of late endosomes and lysosomes. In endosomal membranes, syntaxin 8 forms complexes with endobrevin, syntaxin 7 and vti1b.

Selected References SYSY Antibodies

- SNARE protein expression and localization in human cytotoxic T lymphocytes.
Pattu V, Qu B, Schwarz EC, Strauss B, Weins L, Bhat SS, Halimani M, Marshall M, Rettig J, Hoth M
European journal of immunology (2012) 42(2): 470-5. **WB, ICC**
- Syntaxin 6 and Vti1b form a novel SNARE complex, which is up-regulated in activated macrophages to facilitate exocytosis of tumor necrosis Factor-alpha.
Murray RZ, Wylie FG, Khromykh T, Hume DA, Stow JL
The Journal of biological chemistry (2005) 280(11): 10478-83. **WB, IP**
- MARCH-II is a syntaxin-6-binding protein involved in endosomal trafficking.
Nakamura N, Fukuda H, Kato A, Hirose S
Molecular biology of the cell (2005) 16(4): 1696-710. **WB, ICC**
- Oxidized phagosomal NOX2 complex is replenished from lysosomes.
Dingjan I, Linders PT, van den Bekerom L, Baranov MV, Halder P, Ter Beest M, van den Bogaart G
Journal of cell science (2017) 130(7): 1285-1298. **ICC; tested species: human**
- Salmonella acquires lysosome-associated membrane protein 1 (LAMP1) on phagosomes from Golgi via SipC protein-mediated recruitment of host Syntaxin6.
Madan R, Rastogi R, Parashuraman S, Mukhopadhyay A
The Journal of biological chemistry (2012) 287(8): 5574-87. **WB**
- Syntaxin 11 binds Vti1b and regulates late endosome to lysosome fusion in macrophages.
Offenhäuser C, Lei N, Roy S, Collins BM, Stow JL, Murray RZ
Traffic (Copenhagen, Denmark) (2011) 12(6): 762-73. **WB**
- A VAMP7/Vti1a SNARE complex distinguishes a non-conventional traffic route to the cell surface used by KChIP1 and Kv4 potassium channels.
Flowerdew SE, Burgoyne RD
The Biochemical journal (2009) 418(3): 529-40. **ICC**
- Molecular anatomy of a trafficking organelle.
Takamori S, Holt M, Stenius K, Lemke EA, Grønborg M, Riedel D, Urlaub H, Schenck S, Brügger B, Ringler P, Müller SA, et al.
Cell (2006) 127(4): 831-46. **WB**
- ### Selected General References
- The N-terminal domains of syntaxin 7 and vti1b form three-helix bundles that differ in their ability to regulate SNARE complex assembly.
Antonin W, Dulubova I, Arac D, Pabst S, Plitzner J, Rizo J, Jahn R
The Journal of biological chemistry (2002) 277(39): 36449-56.
- Crystal structure of the endosomal SNARE complex reveals common structural principles of all SNAREs.
Antonin W, Fasshauer D, Becker S, Jahn R, Schneider TR
Nature structural biology (2002) 9(2): 107-11.
- Preferential association of syntaxin 8 with the early endosome.
Subramaniam VN, Loh E, Horstmann H, Habermann A, Xu Y, Coe J, Griffiths G, Hong W
Journal of cell science (2000) 113 (Pt 6): 997-1008.
- A SNARE complex mediating fusion of late endosomes defines conserved properties of SNARE structure and function.
Antonin W, Holroyd C, Fasshauer D, Pabst S, Von Mollard GF, Jahn R
The EMBO journal (2000) 19(23): 6453-64.
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Prekeris R, Yang B, Oorschot V, Klumperman J, Scheller RH
Molecular biology of the cell (1999) 10(11): 3891-908.