

Syntaxin 7

Cat.No. 110 072; 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 up to 1 : 5000 (AP staining) IP: yes ICC: 1 : 100 IHC: yes IHC-P/FFPE: 1 : 200
Immunogen	Recombinant protein corresponding to AA 1 to 236 from rat Syntaxin7 (UniProt Id: O70257)
Reactivity	Reacts with: human (O15400), rat (O70257), mouse (O70439). Other species not tested yet.
Specificity	Specific for syntaxin 7. (K.D. verified)
matching control	110-7P

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

Syntaxin 7, a member of the SNARE family of proteins, is related to syntaxins 1-4 but localized to endosomal membranes of a wide variety of cells.

Syntaxin 7 is involved in the fusion of late endosomes and lysosomes. In endosomal membranes, it forms complexes with endobrevin, syntaxin 8 and vti1b.

Selected References SYSY Antibodies

Composition of isolated synaptic boutons reveals the amounts of vesicle trafficking proteins. Wilhelm BG, Mandad S, Truckenbrodt S, Kröhnert K, Schäfer C, Rammner B, Koo SJ, Claßen GA, Krauss M, Haucke V, Urlaub H, et al. *Science (New York, N.Y.)* (2014) 344(6187): 1023-8. **WB, ICC, IHC**

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. **WB, IP, ICC; KD verified; tested species: human**

Salmonella SipA mimics a cognate SNARE for host Syntaxin8 to promote fusion with early endosomes. Singh PK, Kapoor A, Lomash RM, Kumar K, Kamerkar SC, Pucadyil TJ, Mukhopadhyay A *The Journal of cell biology* (2018) : . **WB, ICC; tested species: human**

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. **ICC**

Expression and function of neuronal growth-associated proteins (nGAPs) in PC12 cells. Lu J, Nozumi M, Takeuchi K, Abe H, Igarashi M *Neuroscience research* (2011) 70(1): 85-90. **ICC**

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**

Syntaxin 16 and syntaxin 5 are required for efficient retrograde transport of several exogenous and endogenous cargo proteins. Amessou M, Fradagrada A, Falguières T, Lord JM, Smith DC, Roberts LM, Lamaze C, Johannes L *Journal of cell science* (2007) 120(Pt 8): 1457-68. **WB; KD verified; tested species: human**

Modification of host lipid raft proteome upon hepatitis C virus replication. Mannová P, Fang R, Wang H, Deng B, McIntosh MW, Hanash SM, Beretta L *Molecular & cellular proteomics : MCP* (2006) 5(12): 2319-25. **WB**

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**

High-throughput identification of IMCD proteins using LC-MS/MS. Pisitkun T, Bieniek J, Tchapyjnikov D, Wang G, Wu WW, Shen RF, Knepper MA *Physiological genomics* (2006) 25(2): 263-76. **WB**

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. **IP**

Association of ABCA1 with syntaxin 13 and flotillin-1 and enhanced phagocytosis in tangier cells. Bared SM, Buechler C, Boettcher A, Dayoub R, Sigrüener A, Grandl M, Rudolph C, Dada A, Schmitz G *Molecular biology of the cell* (2004) 15(12): 5399-407. **WB**

Mammalian ykt6 is a neuronal SNARE targeted to a specialized compartment by its profilin-like amino terminal domain. Hasegawa H, Zinsser S, Rhee Y, Vik-Mo EO, Davanger S, Hay JC *Molecular biology of the cell* (2003) 14(2): 698-720. **ICC**

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**

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. **WB**