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VAMP 7

Cat.No. 232 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μ g specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 μ l H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not recommended ICC: not recommended IHC: 1 : 500 IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 10 to 177 from mouse VAMP7 (UniProt Id: P70280)
Reactivity	Reacts with: rat (Q9JHW5), mouse (P70280), human (P51809). No signal: zebrafish. Other species not tested yet.
Specificity	Specific for VAMP 7. (K.O. verified)
matching control	232-0P

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

VAMP 7, also referred to as Ti-VAMP and SybL 1, is a member of the SNARE family of proteins and a relative of synaptobrevin. It is involved in membrane fusion events that mediate neurite outgrowth in developing neurons, in endosome to lysosome transport and in other cellular trafficking mechanisms. VAMP 7 is ubiquitously expressed in different tissues.

It is a member of the syntaxin 4-SNAP 23-VAMP 7- and the syntaxin 7-syntaxin 8-Vti1b-VAMP 7-SNARE complex.

Selected References SYSY Antibodies

Comparative study of commercially available and homemade anti-VAMP7 antibodies using CRISPR/Cas9-depleted HeLa cells and VAMP7 knockout mice. Verraes A, Cholley B, Galli T, Nola S

F1000Research (2018) 7: 1649. WB; KO verified; tested species: human

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**

Selective molecular impairment of spontaneous neurotransmission modulates synaptic efficacy. Crawford DC, Ramirez DM, Trauterman B, Monteggia LM, Kavalali ET Nature communications (2017) 8: 14436. **WB; KD verified**

Differential Expression of Munc13-2 Produces Unique Synaptic Phenotypes in the Basolateral Amygdala of C57BL/6J and DBA/2J Mice. Gioia DA, Alexander NJ, McCool BA The Journal of neuroscience : the official journal of the Society for Neuroscience (2016) 36(43): 10964-10977. **WB**

Characterization of VAMP isoforms in 3T3-L1 adipocytes: implications for GLUT4 trafficking. Sadler JB, Bryant NJ, Gould GW Molecular biology of the cell (2015) 26(3): 530-6. **WB**

Selected General References

Vesicle-associated membrane protein 7 is expressed in intestinal ER. Siddiqi SA, Mahan J, Siddiqi S, Gorelick FS, Mansbach CM Journal of cell science (2006) 119(Pt 5): 943-50.

Identification of SNAREs involved in synaptotagmin VII-regulated lysosomal exocytosis. Rao SK, Huynh C, Proux-Gillardeaux V, Galli T, Andrews NW The Journal of biological chemistry (2004) 279(19): 20471-9.

A dual mechanism controlling the localization and function of exocytic v-SNAREs. Martinez-Arca S, Rudge R, Vacca M, Raposo G, Camonis J, Proux-Gillardeaux V, Daviet L, Formstecher E, Hamburger A, Filippini F, D'Esposito M, et al.

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Subcellular localization of tetanus neurotoxin-insensitive vesicle-associated membrane protein (VAMP)/VAMP7 in neuronal cells: evidence for a novel membrane compartment. Coco S, Raposo G, Martinez S, Fontaine JJ, Takamori S, Zahraoui A, Jahn R, Matteoli M, Louvard D, Galli T

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VAMP-7 mediates vesicular transport from endosomes to lysosomes. Advani RJ, Yang B, Prekeris R, Lee KC, Klumperman J, Scheller RH The Journal of cell biology (1999) 146(4): 765-76.