

VAMP7 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13865c**Specification**

VAMP7 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P51809](#)**VAMP7 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 6845**Other Names**

Vesicle-associated membrane protein 7, VAMP-7, Synaptobrevin-like protein 1, Tetanus-insensitive VAMP, Ti-VAMP, VAMP7, SYBL1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13865c was selected from the Center region of VAMP7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VAMP7 Antibody (Center) Blocking peptide - Protein Information**Name** VAMP7**Synonyms** SYBL1**Function**

Involved in the targeting and/or fusion of transport vesicles to their target membrane during transport of proteins from the early endosome to the lysosome. Required for heterotypic fusion of late endosomes with lysosomes and homotypic lysosomal fusion. Required for calcium regulated lysosomal exocytosis. Involved in the export of chylomicrons from the endoplasmic reticulum to the cis Golgi. Required for exocytosis of mediators during eosinophil and neutrophil degranulation, and target cell killing by natural killer cells. Required for focal exocytosis of late endocytic vesicles during phagosome formation.

Cellular Location

Cytoplasmic vesicle, secretory vesicle membrane; Single-pass type IV membrane protein Golgi

apparatus, trans-Golgi network membrane; Single-pass type IV membrane protein. Late endosome membrane; Single-pass type IV membrane protein Lysosome membrane; Single-pass type IV membrane protein. Endoplasmic reticulum membrane; Single-pass type IV membrane protein. Cytoplasmic vesicle, phagosome membrane; Single-pass type IV membrane protein. Synapse, synaptosome. Note=In immature neurons expression is localized in vesicular structures in axons and dendrites while in mature neurons it is localized to the somatodendritic region Colocalizes with LAMP1 in kidney cells. Localization to the endoplasmic reticulum membrane was observed in the intestine but not in liver or kidney (By similarity).

Tissue Location

Detected in all tissues tested.

VAMP7 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

VAMP7 Antibody (Center) Blocking peptide - Images**VAMP7 Antibody (Center) Blocking peptide - Background**

This gene encodes a transmembrane protein that is a member of the soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) family. The encoded protein localizes to late endosomes and lysosomes and is involved in the fusion of transport vesicles to their target membranes. Alternate splicing results in multiple transcript variants.

VAMP7 Antibody (Center) Blocking peptide - References

Vivona, S., et al. J. Biol. Chem. 285(23):17965-17973(2010) Danglot, L., et al. J. Cell. Sci. 123 (PT 5), 723-735 (2010) :Fader, C.M., et al. Biochim. Biophys. Acta 1793(12):1901-1916(2009) Burgo, A., et al. EMBO Rep. 10(10):1117-1124(2009) Ward, D.M., et al. Mol. Biol. Cell 11(7):2327-2333(2000)