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# VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus)

**Rabbit Polyclonal Antibody**
**Catalog # ALS15634**

## Specification

### VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus) - Product Information

| | |
|---|---|
| Application | **IF** |
| Primary Accession | P51809 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **25kDa KDa** |

### VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus) - 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**
Human VAMP7 / SYBL1. At least three isoforms of VAMP7 are known to exist; this antibody will detect the two longest isoforms. This antibody is predicted to not cross-react with other Ras-related proteins.

**Reconstitution & Storage**
Store at -20°C. Aliquot to avoid freeze/thaw cycles.

**Precautions**
VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

### VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus) - 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).

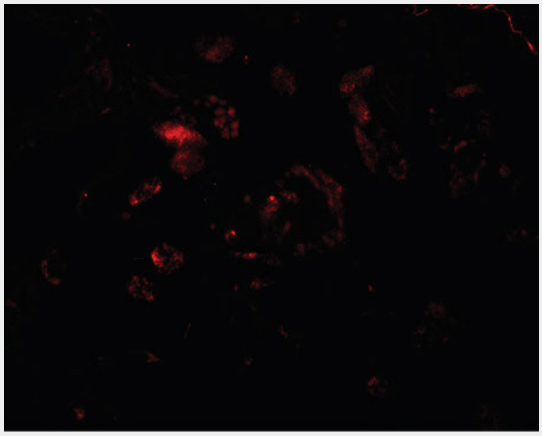
**Tissue Location**
Detected in all tissues tested.

## VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus) - Images



Immunofluorescence of VAMP7 in human lung tissue with VAMP7 antibody at 20 ug/ml.

## VAMP7 / SYBL1 / T1 VAMP Antibody (N-Terminus) - Background

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D'Esposito M.,et al.Nat. Genet. 13:227-229(1996).
Ciccodicola A.,et al.Hum. Mol. Genet. 9:395-401(2000).
Martinez-Arca S.,et al.Proc. Natl. Acad. Sci. U.S.A. 100:9011-9016(2003).
D'Esposito M.,et al.Submitted (SEP-2000) to the EMBL/GenBank/DDBJ databases.
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.