10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VAMP7 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13865C

Specification

VAMP7 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P51809
Other Accession	Q5ZL74, Q17QI5, NP_001138621.1, NP_005629.1, NP_001172112.1
Reactivity	**Human**
Predicted	**Bovine, Chicken**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**24935**
Antigen Region	**51-80**

VAMP7 Antibody (Center) - 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
This VAMP7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 51-80 amino acids from the Central region of human VAMP7.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
VAMP7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

VAMP7 Antibody (Center) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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).

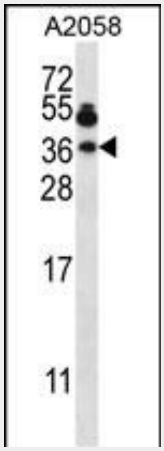
Tissue Location
Detected in all tissues tested.

VAMP7 Antibody (Center) - Protocols

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

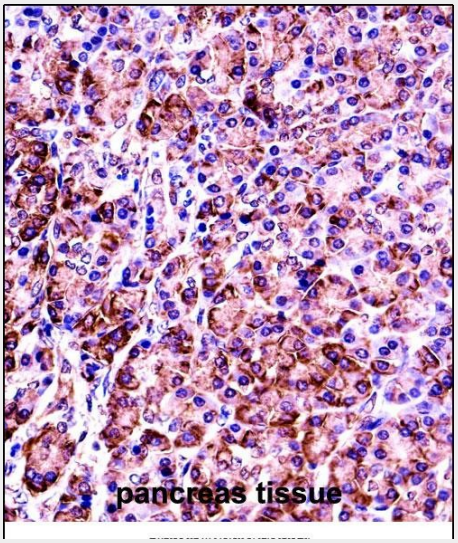
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VAMP7 Antibody (Center) - Images



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VAMP7 Antibody (Center) (Cat. #AP13865c) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the VAMP7 antibody detected the VAMP7 protein (arrow).



VAMP7 Antibody (Center) (AP13865c)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of VAMP7 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

VAMP7 Antibody (Center) - 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) - 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)