VAMP7 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	VAMP7, Blocking Peptide
Full Product Name	VAMP7 Antibody (Center) Blocking peptide
Product Gene Name	VAMP7 blocking peptide
Product Synonym Gene Name	SYBL1
Product Synonym Names	Vesicle-associated membrane protein 7; VAMP-7; Synaptobrevin-like protein 1; Tetanus-insensitive VAMP; Ti-VAMP; VAMP7; SYBL1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody 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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	VAMP7 peptide (MBS9220256) is used for blocking the activity of VAMP7 antibody (MBS9215079)
Molecular Weight	20,121 Da
OMIM	300053
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 Cell junction, 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.
Related Product Information for VAMP7 blocking peptide	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.
Other Notes	Small volumes of VAMP7 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VAMP7 purchase	MBS9220256 is a blocking peptide targeting VAMP7. Also known as VAMP7 Antibody (Center) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VAMP7. It may not necessarily be applicable to this product.

NCBI GI #	1723133
NCBI GeneID	6845
NCBI Accession #	P51809.3

UniProt Primary Accession #	P51809
UniProt Secondary Accession #	Q53GY7; Q7Z409; Q9H4A7
UniProt Related Accession #	P51809
NCBI Official Full Name	Vesicle-associated membrane protein 7
NCBI Official Synonym Full Names	vesicle associated membrane protein 7
NCBI Official Symbol	VAMP7
NCBI Official Synonym Symbols	SYBL1; TIVAMP; VAMP-7; TI-VAMP
UniProt Protein Name	Vesicle-associated membrane protein 7
UniProt Synonym Protein Names	Synaptobrevin-like protein 1; Tetanus-insensitive VAMP; Ti-VAMP
Protein Family	Vesicle-associated membrane protein
UniProt Gene Name	VAMP7
UniProt Synonym Gene Names	SYBL1; VAMP-7; Ti-VAMP
UniProt Entry Name	VAMP7_HUMAN
NCBI Protein Information	vesicle-associated membrane protein 7
NCBI Summary for VAMP7	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.[provided by RefSeq, Jun 2010]
UniProt Comments for VAMP7	VAMP7: 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. Belongs to the synaptobrevin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: Xq28 and Yq12 Cellular Component: cytoplasm; endoplasmic reticulum membrane; intracellular membrane-bound organelle; lamellipodium; late endosome membrane; lysosomal membrane; membrane; neuron projection; phagocytic vesicle; plasma membrane; pseudopodium; secretory granule; secretory granule membrane; SNARE complex; trans-Golgi network Molecular Function: protein binding; SNAP receptor activity; SNARE binding Biological Process: calcium ion-dependent exocytosis; endocytosis; endosome to lysosome transport; eosinophil degranulation; ER to Golgi vesicle-mediated transport; natural killer cell degranulation; neutrophil degranulation; phagocytosis, engulfment; post-Golgi vesicle-mediated transport; vesicle fusion; vesicle-mediated transport
Research Articles on VAMP7	**1.** GLUT5 required an interaction cascade of Rab11, Myo5B, Slp4a, Munc18-2, and Vamp7 with Stx3.
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