

Anti-SYBL1 Picoband Antibody

Catalog # ABO11635

Product Information

Application	WB
Primary Accession	P51809
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Vesicle-associated membrane protein 7(VAMP7) detection. Tested with WB in Human;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	24935
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	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 . 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 Specificity	Detected in all tissues tested.
Source	Eukaryota
Protein Name	Vesicle-associated membrane protein 7
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Immunogen	E. coli-derived human SYBL1 recombinant protein (Position: N24-T190). Human SYBL1 shares 97.6% and 95.2% amino acid (aa) sequence identity with mouse and rat SYBL1, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

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.

Background

Vesicle-associated membrane protein 7 (VAMP-7), also known as SYBL1, is a protein that in humans is encoded by the VAMP7 gene. 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.

Images

Western blot analysis of SYBL1 expression in rat liver extract (lane 1) and HELA whole cell lysates (lane 3). SYBL1 at 25KD was detected using rabbit anti- SYBL1 Antigen Affinity purified polyclonal antibody (Catalog #



ABO11635) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.