

VAMP8 Antibody

Rabbit mAb Catalog # AP91058

Specification

VAMP8 Antibody - Product Information

Application WB, IHC, FC, ICC, IP

Primary Accession
Reactivity

Ogbv40
Rat

Clonality Monoclonal

Other Names

VAMP8; EDB; Endobrevin; VAMP-8;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 11438 Da

VAMP8 Antibody - Additional Information

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

VAMP8

Description Proteins in the soluble

N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex are integral membrane proteins

involved in vesicle transport and

membrane fusion by pairing of vesicular SNAREs (v-SNAREs) with cognate target SNAREs (t-SNAREs). Vesicle associated membrane protein 8 (VAMP8), also known as endobrevin, is a v-SNARE originally found preferentially localized to early

endosomes.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

VAMP8 Antibody - Protein Information

Name VAMP8 {ECO:0000303|PubMed:12130530}

Function

SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion. VAMP8 is a SNARE involved in autophagy through the direct control of



autophagosome membrane fusion with the lysososome membrane via its interaction with the STX17-SNAP29 binary t- SNARE complex (PubMed:23217709, PubMed:25686604). Also required for dense-granule secretion in platelets (PubMed:12130530). Also plays a role in regulated enzyme secretion in pancreatic acinar cells (By similarity). Involved in the abscission of the midbody during cell division, which leads to completely separate daughter cells (By similarity). Involved in the homotypic fusion of early and late endosomes (By similarity). Participates also in the activation of type I interferon antiviral response through a TRIM6-dependent mechanism (PubMed:31694946).

Cellular Location

Lysosome membrane; Single-pass type IV membrane protein. Early endosome membrane; Single-pass type IV membrane protein. Late endosome membrane; Single-pass type IV membrane protein. Cell membrane {ECO:0000250|UniProtKB:070404}; Single-pass type IV membrane protein. Zymogen granule membrane {ECO:0000250|UniProtKB:070404}; Single-pass type IV membrane protein. Note=Perinuclear vesicular structures of the early and late endosomes, coated pits, and trans-Golgi (By similarity) Sub-tight junctional domain in retinal pigment epithelium cells Midbody region during cytokinesis. Lumenal oriented, apical membranes of nephric tubular cell (By similarity). Cycles through the apical but not through the basolateral plasma membrane (By similarity). Apical region of acinar cells; in zymogen granule membranes (By similarity) {ECO:0000250|UniProtKB:Q9WUF4}

Tissue Location Platelets..

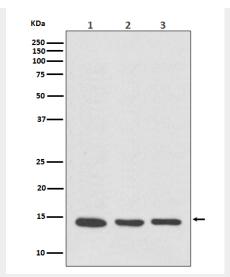
VAMP8 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

VAMP8 Antibody - Images





Western blot analysis of VAMP8 expression in (1) HeLa cell lysate; (2) NIH/3T3 cell lysate; (3) PC-12 cell lysate.