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KD-Validated Anti-VAMP8 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1109

Specification

KD-Validated Anti-VAMP8 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q9BV40
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 11 kDa; observed, 16kDa KDa**
Gene Name	**VAMP8**
Aliases	**VAMP8; Vesicle Associated Membrane Protein 8; VAMP-8; EDB; Vesicle-Associated Membrane Protein 8; Endobrevin; Vesicle-Associated Membrane Protein 8 (Endobrevin)**
Immunogen	**A synthesized peptide derived from human VAMP8**

KD-Validated Anti-VAMP8 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**8673**

Other Names
Vesicle-associated membrane protein 8, VAMP-8, Endobrevin, EDB, VAMP8 {ECO:0000303|PubMed:12130530}

KD-Validated Anti-VAMP8 Rabbit Monoclonal 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 lysosome 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). Also participates in the activation of type I interferon antiviral response through a TRIM6-dependent mechanism (PubMed:<a href="http://www.uniprot.org/citations/31694946"

target="_blank">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:O70404}; Single-pass type IV membrane protein. Zymogen granule membrane {ECO:0000250|UniProtKB:O70404}; 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}

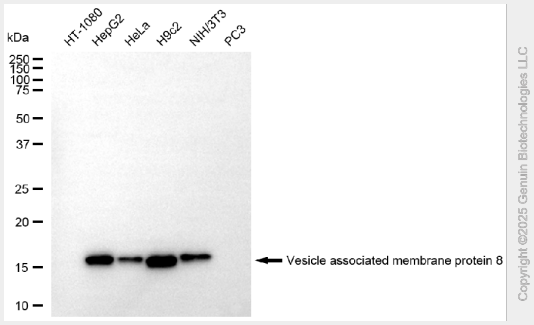
Tissue Location
Platelets..

KD-Validated Anti-VAMP8 Rabbit Monoclonal Antibody - 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

KD-Validated Anti-VAMP8 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-vesicle associated membrane protein 8 antibody (Cat#AGI1109). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-vesicle associated membrane protein 8 antibody (Cat#AGI1109, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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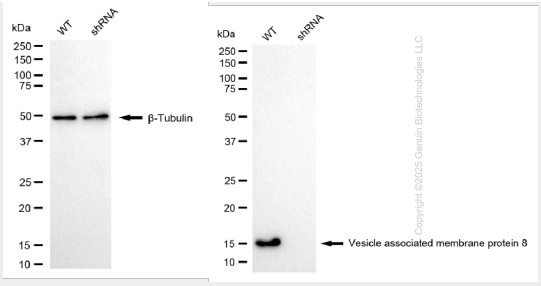
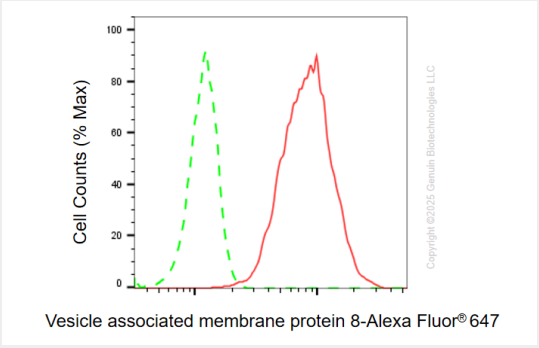


Western blotting analysis using anti-vesicle associated membrane protein 8 antibody (Cat#AGI1109). Vesicle associated membrane protein 8 expression in wild-type (WT) and vesicle associated membrane protein 8 (VAMP8) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-vesicle associated membrane protein 8 antibody (Cat#AGI1109, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Vesicle associated membrane protein 8 expression in HepG2 cells using anti-Vesicle associated membrane protein 8 antibody (Cat# AGI1109, 1:2,000). Green, isotype control; red, Vesicle associated membrane protein 8.