

Vamp8 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI14416

Product Information

Application	WB
Primary Accession	O70404
Other Accession	NM_016794 , NP_058074
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11451

Additional Information

Gene ID	22320
Alias Symbol	AU041171, Edb, endobrevin
Other Names	Vesicle-associated membrane protein 8, VAMP-8, Endobrevin, Edb, Vamp8
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Vamp8 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Vamp8 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Vamp8 {ECO:0000312 MGI:MGI:1336882}
Function	SNAREs (soluble N-ethylmaleimide-sensitive factor-attachment protein receptors) are essential proteins for intracellular membrane fusion. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four-helix bundle whose assembly releases energy that drives membrane fusion. The core SNARE complex typically consists of four alpha-helical domains, three from target membrane SNAREs (t-SNAREs) and one from a vesicle SNARE (v-SNARE). VAMP8 is a v-SNARE that forms a SNARE complex with the t-SNARE STX11 and SNAP23. This SNARE complex plays a critical role in the regulated exocytosis of cytotoxic granules by natural killer (NK) cells and cytotoxic T-lymphocytes. VAMP8 plays a role in autophagy where it controls organelle-organelle membrane fusion through a VAMP8,

SNAP29 and STX17 SNARE complex that mediates the fusion of autophagosome and lysosome membranes (By similarity). VAMP8 is required for dense- granule secretion in platelets (By similarity). Also plays a role in regulated enzyme secretion in pancreatic acinar cells (PubMed:[15363411](#)). 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 (By similarity).

Cellular Location

Lysosome membrane; Single-pass type IV membrane protein. Late endosome membrane {ECO:0000250|UniProtKB:Q9WUF4}; Single-pass type IV membrane protein. Early endosome membrane {ECO:0000250|UniProtKB:Q9WUF4}; Single-pass type IV membrane protein. Cell membrane; Single-pass type IV membrane protein. Zymogen granule membrane; 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 (By similarity) Midbody region during cytokinesis (By similarity). Luminal 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 (PubMed:15363411). {ECO:0000250|UniProtKB:Q9WUF4, ECO:0000269|PubMed:15363411, ECO:0000269|PubMed:9614193}

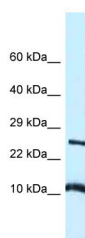
Tissue Location

Expressed abundantly in the kidney, less in the liver, brain, kidney, heart, lung, pancreas and placenta

References

Wong S.H.,et al.Mol. Biol. Cell 9:1549-1563(1998).
 Advani R.J.,et al.J. Biol. Chem. 273:10317-10324(1998).
 Lu L.,et al.Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
 Carninci P.,et al.Science 309:1559-1563(2005).
 Wang C.-C.,et al.Dev. Cell 7:359-371(2004).

Images



WB Suggested Anti-Vamp8 Antibody Titration: 1.0 µg/ml
 Positive Control: Mouse Small Intestine

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