

VAMP8 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W | H M | Endogenous | 15 | Rabbit | #Q9BV40 | 8673 |

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

VAMP8 Antibody recognizes endogenous levels of total VAMP8 protein.

Species predicted to react based on 100% sequence homology

Monkey, Dog

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val31 of human VAMP8 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

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) (reviewed in 1,2). Vesicle associated membrane protein 8 (VAMP8), also known as endobrevin, is a v-SNARE originally found preferentially localized to early endosomes (3). VAMP8 knockout mice did not show abnormal endosomal vesicular trafficking, perhaps having a redundant role with other VAMP family members (4). Instead, research studies have shown that VAMP8 is widely expressed in exocrine tissues and has a critical role in the exocytosis pathways of a variety of cells (4-9). In addition, lysosome localized VAMP8 has been shown to play a role in autophagosome/lysosome fusion during antimicrobial (xenophagy) and canonical starvation induced autophagy (5).

Background References

1. Jena, B.P. (2011) *Adv Exp Med Biol* 713, 13-32.
2. Kasai, H. et al. (2012) *Physiol Rev* 92, 1915-64.
3. Wong, S.H. et al. (1998) *Mol Biol Cell* 9, 1549-63.
4. Wang, C.C. et al. (2007) *Mol Biol Cell* 18, 1056-63.
5. Furuta, N. et al. (2010) *Mol Biol Cell* 21, 1001-10.
6. Nagamatsu, S. et al. (2001) *J Cell Sci* 114, 219-227.
7. Okayama, M. et al. (2009) *Cell Struct Funct* 34, 115-25.
8. Jones, L.C. et al. (2012) *J Physiol* 590, 545-62.
9. Wang, C.C. et al. (2004) *Dev Cell* 7, 359-71.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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