

## Endobrevin

**Cat.No. 104 303; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)**

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> not tested yet <b>ICC:</b> 1 : 100 up to 1 : 500 <b>IHC:</b> yes <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 75 from rat Endobrevin (UniProt Id: Q9WUF4)
Reactivity	Reacts with: human (Q9BV40), rat (Q9WUF4), mouse (O70404). Other species not tested yet.
Specificity	Specific for endobrevin. (K.O. verified)

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

**Endobrevin/VAMP8**, a member of the SNARE family of proteins, is a relative of synaptobrevin that is involved in the fusion of early and late endosomes. Endobrevin is expressed in most mammalian cells but appears to be absent from neurons. The protein is predominantly localized to early and late endosomal membranes but is also found on other membranes and organelles involved in endocytic membrane traffic. In the fusion of late endosomes it forms SNARE complexes with syntaxin 7, syntaxin 8 and vti1b.

### Selected References SYSY Antibodies

Vesicle associated membrane protein 8 (VAMP8)-mediated zymogen granule exocytosis is dependent on endosomal trafficking via the constitutive-like secretory pathway.

Messenger SW, Falkowski MA, Thomas DD, Jones EK, Hong W, Gaisano HY, Giasano HY, Boulis NM, Groblewski GE  
The Journal of biological chemistry (2014) 289(40): 28040-53. **WB, IHC; KO verified**

Defective AP-3-dependent VAMP8 trafficking impairs Weibel-Palade body exocytosis in Hermansky-Pudlak Syndrome type 2 blood outgrowth endothelial cells.

Karampini E, Schillemans M, Hofman M, van Alphen F, de Boer M, Kuijpers TW, van den Biggelaar M, Voorberg J, Bierings R  
Haematologica (2019) : . **WB, ICC; KD verified; tested species: human**

Syntaxin 8 regulates platelet dense granule secretion, aggregation, and thrombus stability.

Golebiewska EM, Harper MT, Williams CM, Savage JS, Goggs R, Fischer von Mollard G, Poole AW  
The Journal of biological chemistry (2015) 290(3): 1536-45. **WB**

### Selected General References

Membrane fusion and exocytosis.

Jahn R, Südhof TC  
Annual review of biochemistry (1999) 68: 863-911.

Seven novel mammalian SNARE proteins localize to distinct membrane compartments.

Advani RJ, Bae HR, Bock JB, Chao DS, Doung YC, Prekeris R, Yoo JS, Scheller RH  
The Journal of biological chemistry (1998) 273(17): 10317-24.

Endobrevin, a novel synaptobrevin/VAMP-like protein preferentially associated with the early endosome.

Wong SH, Zhang T, Xu Y, Subramaniam VN, Griffiths G, Hong W  
Molecular biology of the cell (1998) 9(6): 1549-63.