

**Synaptobrevin (VAMP) Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AN1195****Specification**

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**Synaptobrevin (VAMP) Antibody - Product Information**

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Application       | WB                                              |
| Primary Accession | <a href="#">P23763</a>                          |
| Reactivity        | Bovine, Human, Hamster, Mouse, Pig, Rat, Rabbit |
| Host              | Mouse                                           |
| Clonality         | monoclonal                                      |
| Isotype           | IgM                                             |
| Calculated MW     | 16 KDa                                          |

**Synaptobrevin (VAMP) Antibody - Additional Information**

|                                                                             |         |
|-----------------------------------------------------------------------------|---------|
| Gene ID                                                                     | 6843    |
| Gene Name                                                                   | VAMP1/2 |
| <b>Other Names</b>                                                          |         |
| Vesicle-associated membrane protein 1, VAMP-1, Synaptobrevin-1, VAMP1, SYB1 |         |

**Target/Specificity**

Synaptic immunoprecipitate (crude) from human brain.

**Dilution**

WB~~ 1:1000

**Format**

Purified culture supernatant.

**Antibody Specificity**

The antibody is specific for the ~16kDa synaptobrevin protein in Western blots of rat brain lysate. The antibody has also been demonstrated to work in immunohistochemistry on formalin fixed, vibratome sections, but does not work on paraffin sections.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Synaptobrevin (VAMP) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

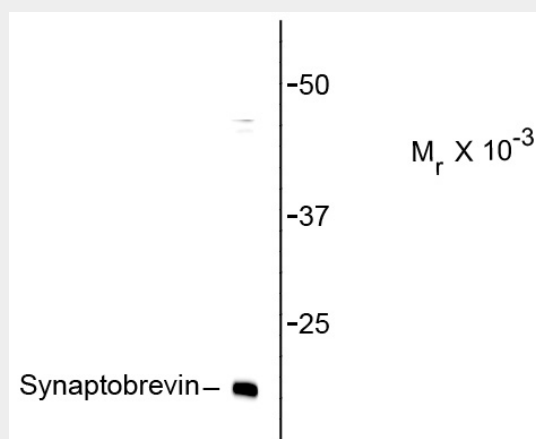
Blue Ice

**Synaptobrevin (VAMP) 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 Cytometry](#)
- [Cell Culture](#)

### Synaptobrevin (VAMP) Antibody - Images



Western blot of rat brain lysate showing specific immunolabeling of the ~ 16k synaptobrevin protein.

### Synaptobrevin (VAMP) Antibody - Background

Synaptobrevin (aka VAMP) is an integral membrane protein of synaptic vesicles that plays a major role in the formation of larger SNARE complexes, along with SNAP-25 and syntaxin. Synaptobrevin has been shown to be essential for two fast synapse-specific membrane trafficking processes: fast exocytosis for neurotransmitter release and fast endocytosis that mediates rapid recycling of synaptic vesicles (Deak et al., 2004). Decreased levels of synaptobrevin in human hippocampus and cortex have been correlated with cognitive defects in Alzheimer's disease (Sze et al., 2000)

### Synaptobrevin (VAMP) Antibody - References

Deák F  
,  
Schoch S  
,  
Liu X  
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Südhof TC  
,  
Kavalali ET  
(2004) Synaptobrevin is essential for fast synaptic-vesicle endocytosis.

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2004 Nov;6(11):1102-8.

Sze CI, Bi H, Kleinschmidt-DeMasters BK, Filley CM, Martin LJ (2000)

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Honer, W. G., Hu, L. & Davies, P. Human synaptic proteins with a heterogeneous distribution in cerebellum and visual cortex (1993).

Brain Research

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