

Synaptobrevin (VAMP) Antibody
Mouse monoclonal antibody
Catalog # AN1195

Specification

Synaptobrevin (VAMP) Antibody - Product Information

Application	WB
Primary Accession	P23763
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
Other Names	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

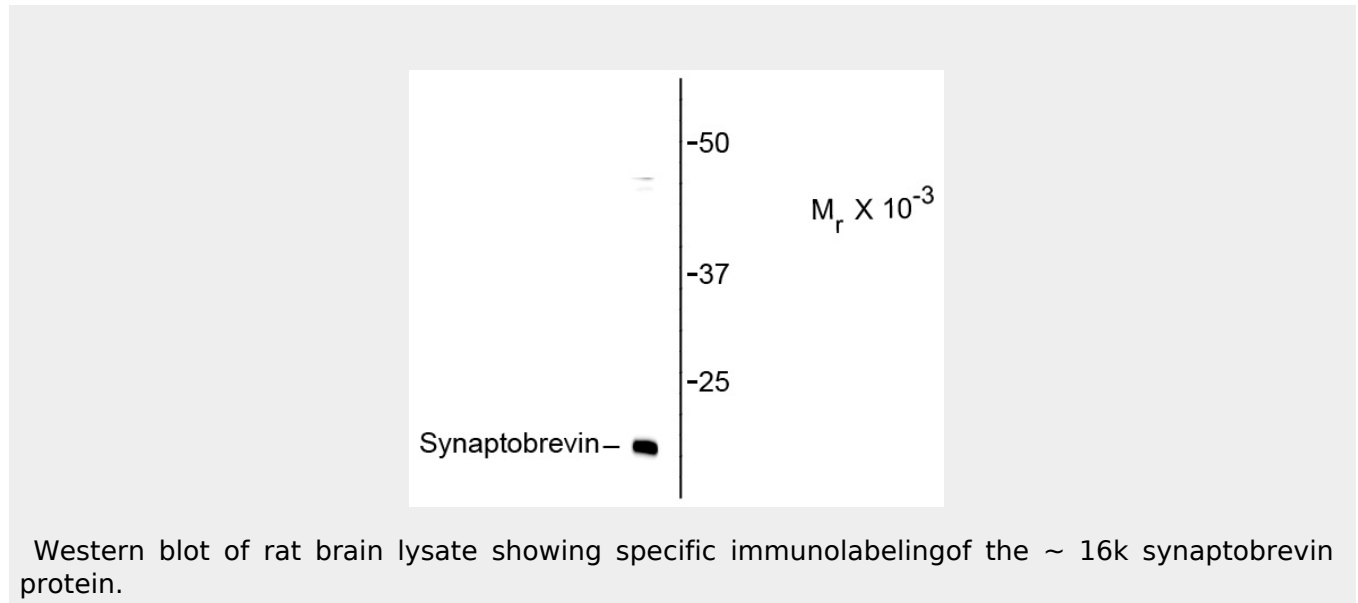
Blue Ice

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



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
,
Südhof TC
,
Kavalali ET
(2004) Synaptobrevin is essential for fast synaptic-vesicle endocytosis.

Nat Cell Biol.

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

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

Selective regional loss of

exocytotic presynaptic vesicle proteins in Alzheimer's disease brains.

J Neurol Sci.175(2):81-90.

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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