

**VAMP1/2 Antibody**  
**VAMP1/2 Antibody, Clone SP-11**  
**Catalog # ASM10120****Specification****VAMP1/2 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">P23763</a>
Other Accession	<a href="#">NP_055046.1</a>
Host	Mouse
Isotype	IgG1
Reactivity	Human, Rat
Clonality	Monoclonal
Format	APC

**Description**  
Mouse Anti-Human VAMP1/2 Monoclonal IgG1

**Target/Specificity**

Detects ~20-25kDa. Recognizes VAMP 1 and 2.

**Other Names**

SYB1 Antibody, Synaptobrevin Antibody, vesicle associated membrane protein Antibody

**Immunogen**

Crude human synaptic immunoprecipitate

**Purification**

Protein G Purified

**Storage**

-20°C

**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

**Shipping Temperature**

Blue Ice or 4°C

**Certificate of Analysis**

1 µg/ml of SMC-179 was sufficient for detection of VAMP in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

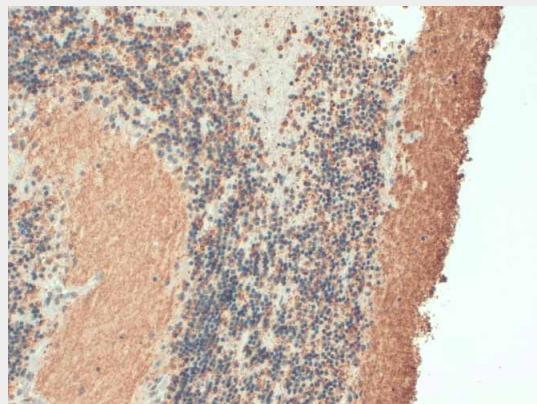
Mitochondrion | Mitochondrion Outer Membrane | Cytoplasmic Vesicle

**VAMP1/2 Antibody - Protocols**

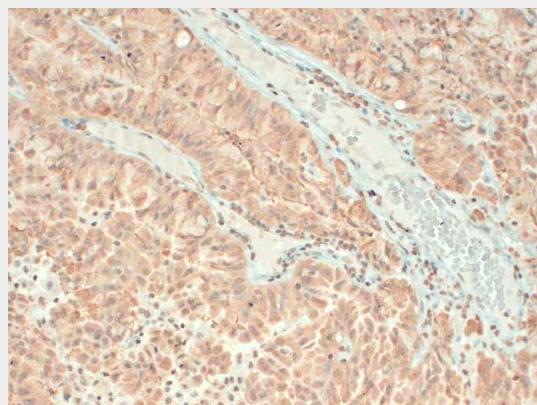
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

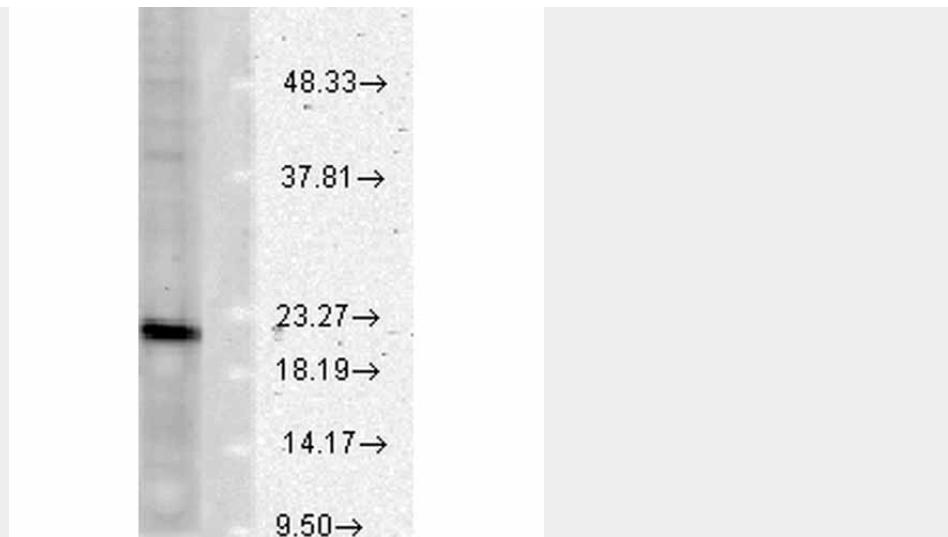
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**VAMP1/2 Antibody - Images**

Immunohistochemistry analysis using Mouse Anti-VAMP Monoclonal Antibody, Clone SP-11 (ASM10120). Tissue: Cerebellum. Species: Human. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-VAMP Monoclonal Antibody (ASM10120) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500  $\mu$ l for 5 minutes at RT. Localization: Fibers and Neurons.



Immunohistochemistry analysis using Mouse Anti-VAMP Monoclonal Antibody, Clone SP-11 (ASM10120). Tissue: Brain Slice. Species: Human. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-VAMP Monoclonal Antibody (ASM10120) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500  $\mu$ l for 5 minutes at RT. Localization: Brain neurons with lack of staining on the blood vessels. Magnification: 20x.



### **VAMP1/2 Antibody - Background**

VAMP-1, also known as vesicle-associated membrane protein, is an 18kDa member of the synaptobrevin family of proteins. It is expressed in neurons, neutrophils, and skeletal muscle cells, and participates in vesicle fusion with the plasma membrane (1). Synaptobrevins, Syntakins and the 25kDa synaptosomal associated SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane (2). VAMP-1 is also one of the key proteins in the SNARE complex which is involved in regulated exocytosis (3).

### **VAMP1/2 Antibody - References**

1. Trimble W.S., Cowan D.M., and Scheller R.H. (1988) Proc Natl Acad Sci USA. 85: 4538-4542.
2. Nabokina S.M. (2001) Bulletin of Experimental Bio and Med. 131(2): 130-131.
3. Berglund L., Hoffman H.J., Dahl R., and Peterson T.E. (1999) Biochem Biophys Research Communicaitons. 264(3): 777-780.