

# VAMP2 Monoclonal antibody, PBS Only

Catalog Number: 67822-1-PBS

## Basic Information

<b>Catalog Number:</b> 67822-1-PBS	<b>GenBank Accession Number:</b> BC002737	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 6844	<b>CloneNo.:</b> 1G7E8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P63027	
<b>Isotype:</b> IgG3	<b>Full Name:</b> vesicle-associated membrane protein 2 (synaptobrevin 2)	
<b>Immunogen Catalog Number:</b> AG17908	<b>Calculated MW:</b> 13 kDa	
	<b>Observed MW:</b> 19 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA, IHC, IF

**Species Specificity:**  
Human, Mouse, Rat, Pig, Rabbit

## Background Information

VAMP2 (vesicle-associated membrane protein 2), also named as synaptobrevin 2, is a member of the SNARE (soluble NSF-attachment protein receptor) family proteins. Characterized by a common sequence called the SNARE motif, SNARE proteins are involved in membrane fusion and vesicular transport (PMID: 11252968). VAMP2, with a molecular mass of 15-19 kDa, consists of a short N-terminal sequence, a SNARE motif, and a C-terminal transmembrane region. It is required for fast calcium-triggered synaptic vesicle fusion. VAMP2 forms a stable complex with STX1 (syntaxin 1) and SNAP25 (synaptosomal-associated protein 25) during synaptic vesicle fusion (PMID: 16793874). It also forms a distinct complex with synaptophysin. VAMP2 is expressed in nervous system and some non-neuronal tissues, such as skeletal muscle (PMID: 18570252).

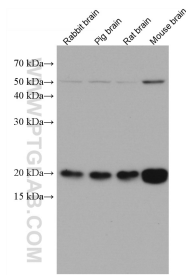
## Storage

**Storage:**  
Store at -80°C.

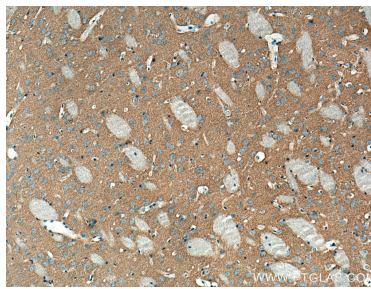
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

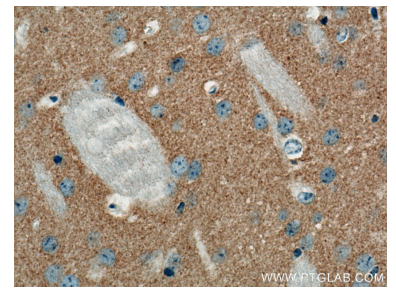
## Selected Validation Data



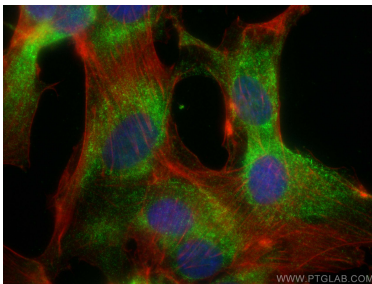
Various lysates were subjected to SDS PAGE followed by western blot with 67822-1-Ig (VAMP2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67822-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67822-1-Ig (VAMP2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67822-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67822-1-Ig (VAMP2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67822-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed U-87 MG cells using VAMP2 antibody (67822-1-Ig, Clone: 1G7E8 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red). This data was developed using the same antibody clone with 67822-1-PBS in a different storage buffer formulation.