

VAMP2 Monoclonal antibody

Catalog Number: 67822-1-Ig

Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
67822-1-Ig	BC002737	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
1000 µg/ml	6844	1G7E8
Source:	UNIPROT ID:	Recommended Dilutions:
Mouse	P63027	WB 1:5000-1:50000
Isotype:	Full Name:	IHC 1:1000-1:4000
IgG3	vesicle-associated membrane protein 2 (synaptobrevin 2)	IF 1:200-1:800
Immunogen Catalog Number:	Calculated MW:	
AG17908	13 kDa	
	Observed MW:	
	19 kDa	

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Species Specificity:

Human, Mouse, Rat, Pig, Rabbit

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: rabbit brain tissue, pig brain tissue, rat brain tissue, mouse brain tissue

IHC: mouse brain tissue,

IF: U-87 MG cells, SH-SY5Y cells

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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

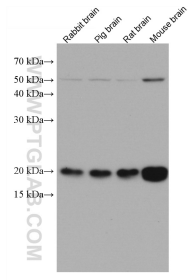
T: 4006900926

E: Proteintech-CN@ptglab.com

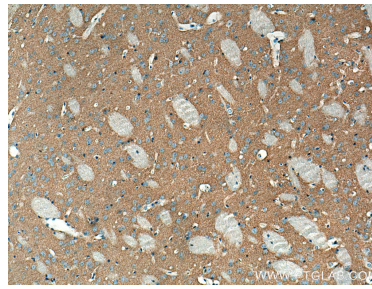
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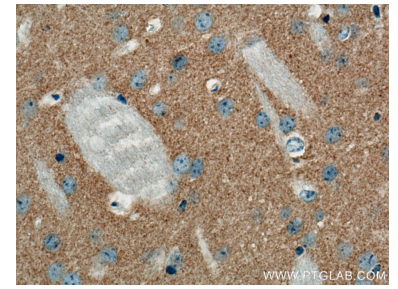
Selected Validation Data



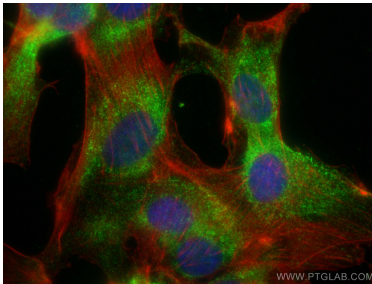
Various lysates were subjected to SDS PAGE followed by western blot with 67822-1-Ig (VAMP2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).



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).



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).