

# VAMP4 Monoclonal antibody

 Catalog Number: **67219-1-Ig** **1 Publications**

## Basic Information

<b>Catalog Number:</b> 67219-1-Ig	<b>GenBank Accession Number:</b> BC007019	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1500 µg/ml	<b>GeneID (NCBI):</b> 8674	<b>CloneNo.:</b> 3A6F2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O75379	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600 IF/ICC 1:150-1:600
<b>Isotype:</b> IgG2a	<b>Full Name:</b> vesicle-associated membrane protein 4	
<b>Immunogen Catalog Number:</b> AG27854	<b>Calculated MW:</b> 16 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b>  <b>WB :</b> HEK-293 cells, Jurkat cells, K-562 cells, pig brain tissue, rat brain tissue <b>IHC :</b> mouse brain tissue, <b>IF/ICC :</b> HEK-293 cells,
<b>Cited Applications:</b> IF	
<b>Species Specificity:</b> Human, Pig, Rat, Mouse	
<b>Cited Species:</b> mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

VAMP4 is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family and the SNARE superfamily. Characterized by a common sequence called the SNARE motif, SNARE proteins are involved in membrane fusion and vesicular transport (PMID: 11252968). VAMP4 may play a role in trans-Golgi network to endosome transport.

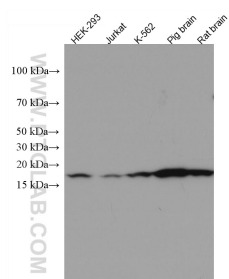
## Notable Publications

Author	Pubmed ID	Journal	Application
Yoshinobu Hara	37848288	eNeuro	IF

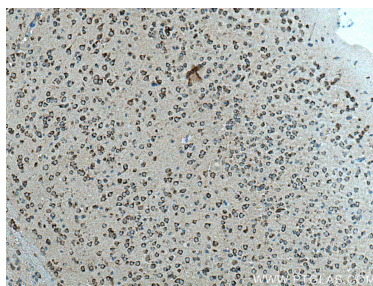
## Storage

**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

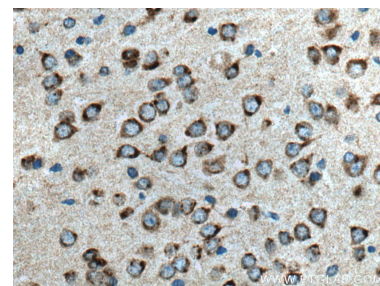
## Selected Validation Data



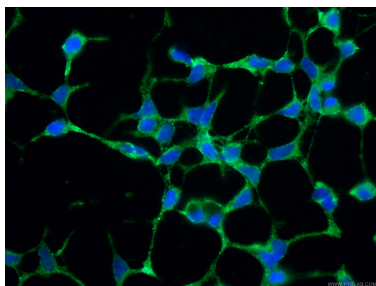
Various lysates were subjected to SDS PAGE followed by western blot with 67219-1-Ig (VAMP4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67219-1-Ig (VAMP4 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67219-1-Ig (VAMP4 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 67219-1-Ig (VAMP4 antibody), at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).