

VAMP2 Polyclonal antibody

Catalog Number: 10135-1-AP

30 Publications

Basic Information

Catalog Number:

10135-1-AP

Concentration:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0179

GenBank Accession Number:

BC002737

GeneID (NCBI):

6844

UNIPROT ID:

P63027

Full Name:

vesicle-associated membrane protein
2 (synaptobrevin 2)

Calculated MW:

13 kDa

Observed MW:

19 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:5000

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF, Blocking

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

**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 : mouse brain tissue, fetal human brain tissue, rat
brain tissueIHC : mouse brain tissue, human skeletal muscle
tissue

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Chengfeng Merriman	31591269	J Biol Chem	WB
Hugo Ramos	34944588	Biomedicines	WB,IF
Zi-Jun Wang	34007043	Neuropsychopharmacology	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

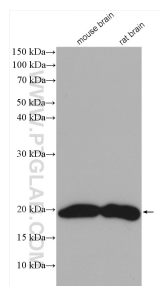
For technical support and original validation data for this product please contact:

T: 4006900926

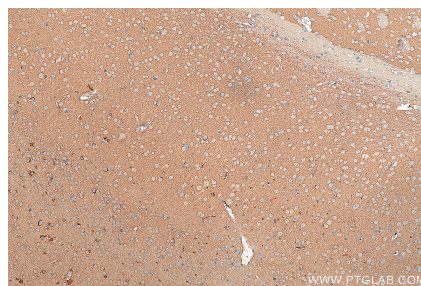
E: Proteintech-CN@ptglab.comW: ptgcn.com

**This product is exclusively available under Proteintech
Group brand and is not available to purchase from any
other manufacturer.**

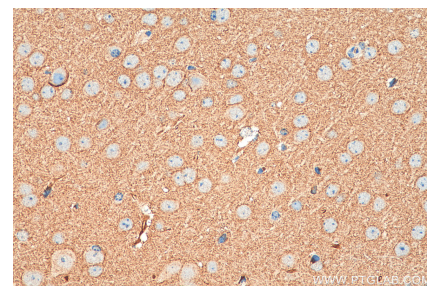
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10135-1-AP (VAMP2 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10135-1-AP (VAMP2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10135-1-AP (VAMP2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).