

For Research Use Only

VAMP2 Polyclonal antibody

Catalog Number: 10135-1-AP

28 Publications



Basic Information

Catalog Number: 10135-1-AP	GenBank Accession Number: BC002737	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 6844	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P63027	
Isotype: IgG	Full Name: vesicle-associated membrane protein 2 (synaptobrevin 2)	
Immunogen Catalog Number: AG0179	Calculated MW: 13 kDa	
	Observed MW: 19 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF, Blocking	WB : mouse brain tissue, fetal human brain tissue, rat brain tissue
Species Specificity: human, mouse, rat	IHC : mouse brain tissue, human skeletal muscle tissue
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	

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

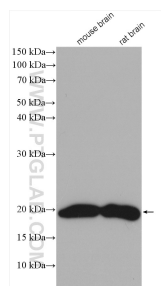
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

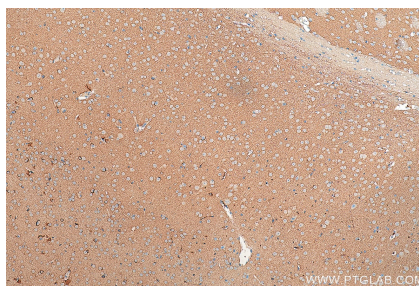
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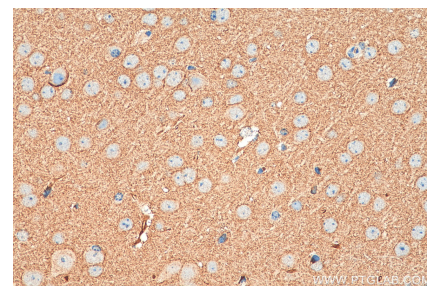
Selected Validation Data



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).