

For Research Use Only

VMAT2 Polyclonal antibody

Catalog Number: 20873-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

20873-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 320 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14971

GenBank Accession Number:

BC108928

GeneID (NCBI):

6571

UNIPROT ID:

Q05940

Full Name:

solute carrier family 18 (vesicular monoamine), member 2

Calculated MW:

514 aa, 56 kDa

Observed MW:

45-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:200-1:800

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : SGC-7901 cells, Jurkat cells

IHC : mouse brain tissue, rat brain tissue

IF-P : mouse brain tissue,

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

VMAT2 is a vesicular monoamine transporter that is responsible for the uptake and storage of monoamines (dopamine, norepinephrine, epinephrine, histamine and serotonin) in neurons, endocrine cells, and tumors deriving from these cells. Histamine-producing endocrine tumors (gastric carcinoids) expressed VMAT2 almost exclusively, thus VMAT2 is useful in classification of neuroendocrine tumors. Reduced expression of VMAT2 has often been observed in Parkinson's diseased (PD) brain, and detection of VMAT2 can be used to reflect the 4-(2-aminoethyl)benzene-1,2-diol neuron loss and predict the disease process. Several forms of VMAT2 can be observed upon the glycosylation: 45 kDa band corresponds to the native (deglycosylated) form, and the 55 and 75 kDa bands to glycosylated forms (PMID: 17582657).

Notable Publications

Author	Pubmed ID	Journal	Application
Sha Li	30922214	Mol Med	IF
Hao Qian	32581380	Nature	WB,IF
Han-Xiang Deng	27270108	Nat Genet	IF

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

*** 20ul sizes contain 0.1% BSA

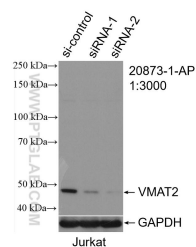
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

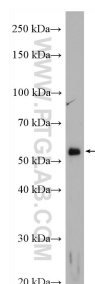
E: proteintech@ptglab.com
W: ptglab.com

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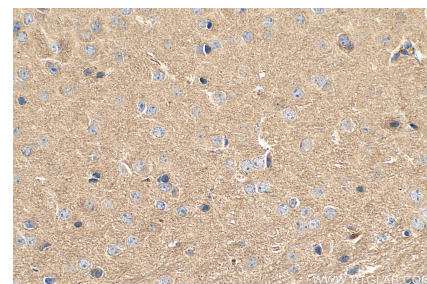
Selected Validation Data



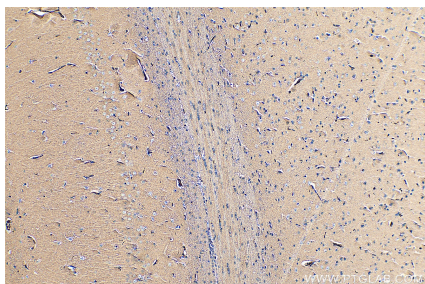
WB result of VMAT2 antibody (20873-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-VMAT2 transfected Jurkat cells.



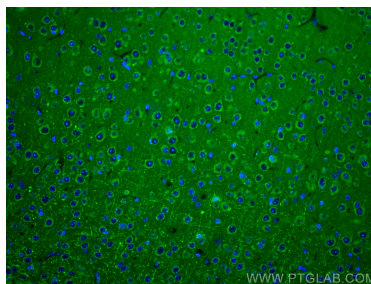
SGC-7901 cells were subjected to SDS PAGE followed by western blot with 20873-1-AP (VMAT2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20873-1-AP (VMAT2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 20873-1-AP (VMAT2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using VMAT2 antibody (20873-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).