

For Research Use Only

VAT1 Recombinant monoclonal antibody

Catalog Number: 86847-1-RR



Basic Information

Catalog Number: 86847-1-RR	GenBank Accession Number: BC015041	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 10493	CloneNo.: 251841D6
Source: Rabbit	UNIPROT ID: Q99536	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:200-1:800
Isotype: IgG	Full Name: vesicle amine transport protein 1 homolog (T. californica)	
Immunogen Catalog Number: AG16652	Calculated MW: 42 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
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: SH-SY5Y cells, NIH/3T3 cells, C6 cells, mouse brain tissue, rat brain tissue, Jurkat cells, MCF-7 cells

IHC: mouse brain tissue,

IF/ICC: SH-SY5Y cells,

Background Information

Vesicle amine transport protein 1 (VAT1) is expressed in neurons and neuroendocrine cells, where it participates in vesicular monoamine uptake and in the docking/fusion steps of neurotransmitter release. Beyond the nervous system, VAT1 binds anionic phospholipids (phosphatidic acid and phosphatidylserine) and catalyses their inter-membrane transfer, thereby integrating lipid metabolism with vesicle trafficking. Recent tumour-biology studies have revealed that VAT1 is frequently up-regulated in aggressive gliomas and gastric cancers; its abundance correlates with enhanced cell migration, radioresistance and an immunosuppressive micro-environment. (PMID: 39832459, PMID: 31524269)

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

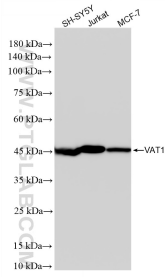
For technical support and original validation data for this product please contact:

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

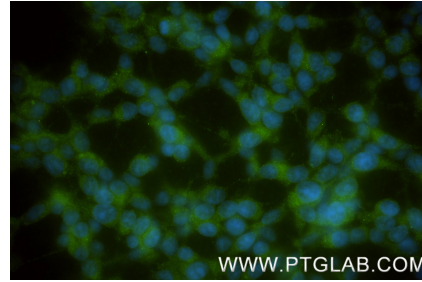
E: proteintech@ptglab.com
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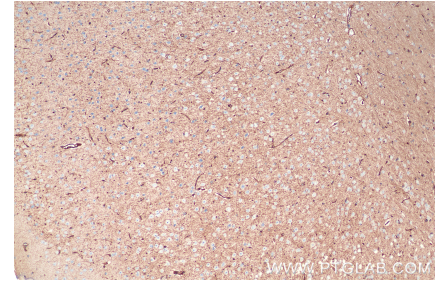
Selected Validation Data



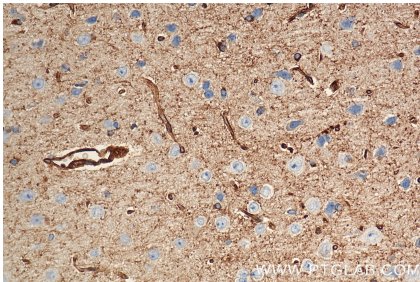
Various lysates were subjected to SDS PAGE followed by western blot with 86847-1-RR (VAT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using VAT1 antibody (86847-1-RR, Clone: 251841D6) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 86847-1-RR (VAT1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 86847-1-RR (VAT1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).