

For Research Use Only

VAT1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86847-1-PBS



Basic Information

Catalog Number: 86847-1-PBS	GenBank Accession Number: BC015041	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 10493	CloneNo.: 251841D6
Isotype: IgG	UNIPROT ID: Q99536	
Immunogen Catalog Number: AG16652	Full Name: vesicle amine transport protein 1 homolog (T. californica)	
	Calculated MW: 42 kDa	
	Observed MW: 45 kDa	

Applications

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

Species Specificity:
human, mouse, rat

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

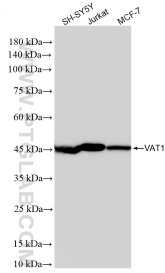
T: 4006900926

E: Proteintech-CN@ptglab.com

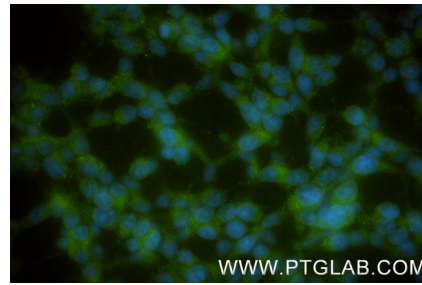
W: ptgcn.com

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

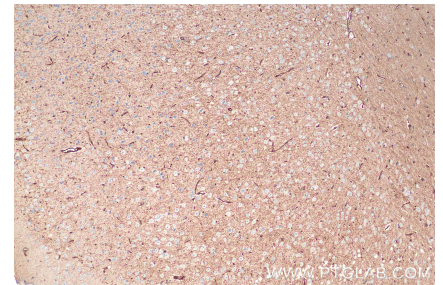
Selected Validation Data



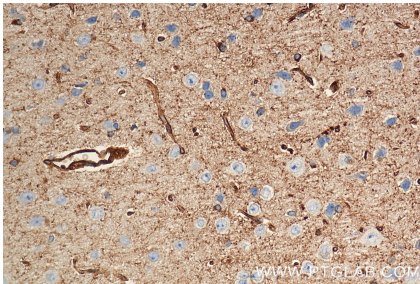
Various lysates were subjected to SDS PAGE followed by western blot with 86847-1-RR (VAT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86847-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86847-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86847-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86847-1-PBS in a different storage buffer formulation.