For Research Use Only

VGLUT1 Polyclonal antibody

Catalog Number: 55491-1-AP 16 Publications



Basic Information

Catalog Number: GenBank Accession Number:

55491-1-AP NM_020309
Size: GeneI D (NCBI):
150ul , Concentration: 500 ug/ml by 57030

Nanodrop; UNIPROT ID:
Source: Q9P2U7
Rabbit Full Name:

Isotype: solute carrier family 17 (sodium-IgG dependent inorganic phosphate cotransporter), member 7

> Calculated MW: 62 kDa

Purification Method: Antigen affinity purification Recommended Dilutions: IHC 1:750-1:3000 IF-P 1:50-1:500

Applications

Tested Applications:

IHC, IF-P, FC (Intra), ELISA

Cited Applications: WB. IHC. IF

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:**

IHC : rat brain tissue, human brain tissue, mouse brain

tissue

IF-P: mouse brain tissue,

Background Information

Vesicular glutamate transporter 1 (VGLUT1) is a critical protein involved in the packaging and release of the neurotransmitter glutamate in synaptic vesicles. VGLUT1 is predominantly expressed in neurons that release glutamate, the primary excitatory neurotransmitter in the central nervous system, it is a marker of glutamatergic neurons.

Notable Publications

Author	Pubmed ID	Journal	Application
Juan Mo	30347267	Neurobiol Dis	IF
Patrizia Bossolasco	36220610	Neurobiol Dis	IF
Hironori Bando	35096641	Front Cell Infect Microbiol	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:

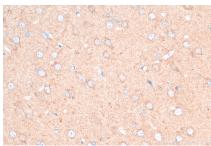
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

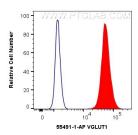
Selected Validation Data



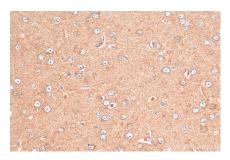
Immunohistochemical analysis of paraffinembedded rat brain tissue slide using 55491-1-AP (VGLUT1 antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat brain tissue slide using 55491-1-AP (VGLUT1 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



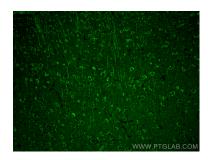
1X10^6 SH-SY5Y cells were intracellularly stained with 0.4 ug Anti-Human VGLUT1 (55491-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgC(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 55491-1-AP (VGLUT1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 55491-1-AP (VGLUT1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immun of luorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using VGLUT1 antibody (55491-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).