

For Research Use Only

VGLUT2 Polyclonal antibody, PBS Only

Catalog Number: 29209-1-PBS



Basic Information

Catalog Number:

29209-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG29565

GenBank Accession Number:

NM_020346

GeneID (NCBI):

57084

UNIPROT ID:

Q9P2U8

Full Name:

solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6

Calculated MW:

64 kDa

Observed MW:

60-70 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, Indirect ELISA

Species Specificity:

human, mouse

Background Information

VGLUT2, also known as SLC17A6, belongs to the major facilitator superfamily. VGLUT2 is a multifunctional transporter that transports phosphate at the plasma membrane and glutamate in synaptic vesicles (PMID:33440152, 11432869). VGLUT2 is involved in neurotransmitter loading into synaptic vesicles (PMID: 11698620). VGLUT2 is predominantly expressed in adult and fetal brain, with highest expression in the medulla, substantia nigra, subthalamic nucleus, and thalamus, and low levels in the cerebellum and hippocampus (PMID:10820226).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

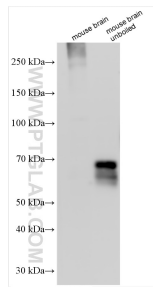
For technical support and original validation data for this product please contact:

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

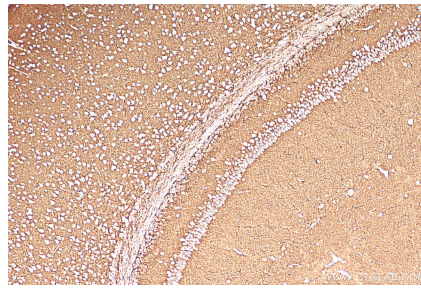
E: proteintech@ptglab.com
W: ptglab.com

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

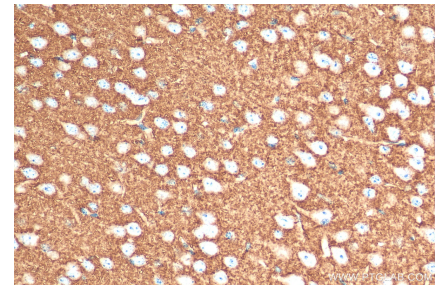
Selected Validation Data



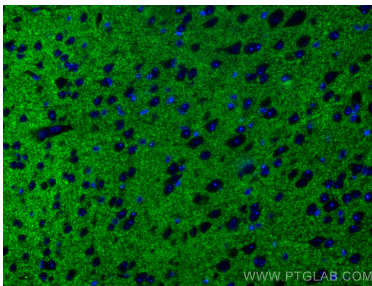
unboiled mouse brain tissue were subjected to SDS PAGE followed by western blot with 29209-1-AP (VGLUT2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 29209-1-PBS in a different storage buffer formulation.



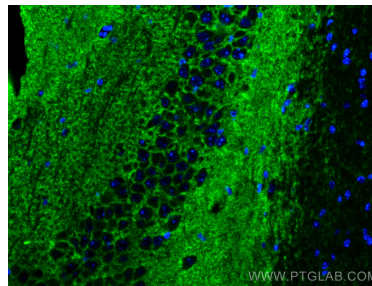
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29209-1-AP (VGLUT2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 29209-1-PBS in a different storage buffer formulation.



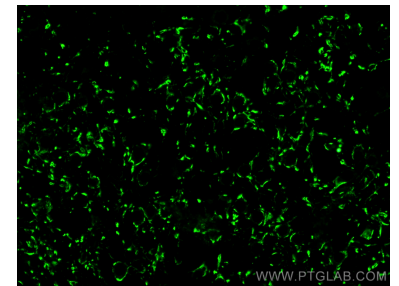
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29209-1-AP (VGLUT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 29209-1-PBS in a different storage buffer formulation.



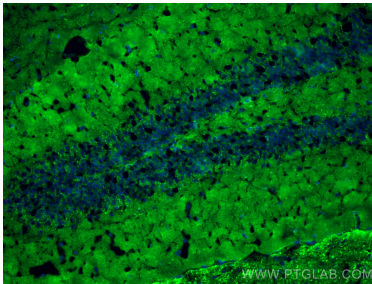
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using VGLUT2 antibody (29209-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 29209-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using VGLUT2 antibody (29209-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 29209-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using VGLUT2 antibody (29209-1-AP) at dilution of 1:200 and Multi-rAb CoraLite @ Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 29209-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using VGLUT2 antibody (29209-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 29209-1-PBS in a different storage buffer formulation.