

For Research Use Only

VGLUT2 Polyclonal antibody

Catalog Number: 29209-1-AP



Basic Information

Catalog Number: 29209-1-AP	GenBank Accession Number: NM_020346	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 57084	Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	
Isotype: IgG	Calculated MW: 64 kDa	
Immunogen Catalog Number: AG29565	Observed MW: 60-70 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : unboiled mouse brain tissue, IHC : mouse brain tissue, IF : mouse brain tissue,
Species Specificity: Human, mouse	
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

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 vesicle (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

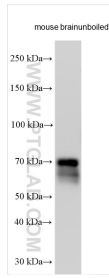
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

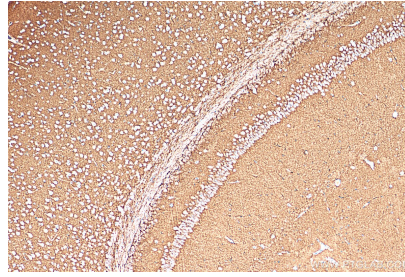
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

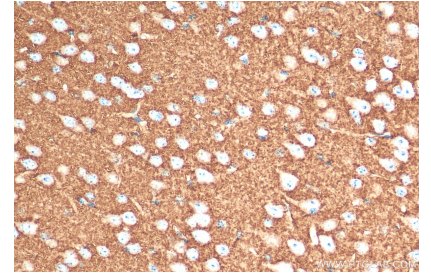
Selected Validation Data



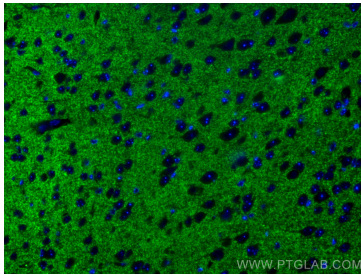
Various lysates were subjected to SDS PAGE followed by western blot with 29209-1-AP (VGLUT2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



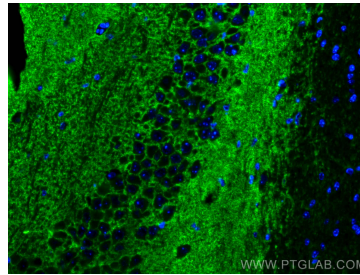
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29209-1-AP (VGLUT2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).



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).