

For Research Use Only

# VGLUT2 Polyclonal antibody

Catalog Number: 29209-1-AP



## Basic Information

<b>Catalog Number:</b> 29209-1-AP	<b>GenBank Accession Number:</b> NM_020346	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57084	<b>Recommended Dilutions:</b> WB 1:500-1:3000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9P2U8	IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	IF-P 1:50-1:500
<b>Immunogen Catalog Number:</b> AG29565	<b>Calculated MW:</b> 64 kDa	IF-Fro 1:50-1:500
	<b>Observed MW:</b> 60-70 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, IF-Fro, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> unboiled mouse brain tissue,
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*)</b> Alternatively, antigen retrieval may be performed with <b>citrate buffer pH 6.0</b>	<b>IHC :</b> mouse brain tissue,
	<b>IF-P :</b> mouse brain tissue,
	<b>IF-Fro :</b> mouse brain tissue,

## 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

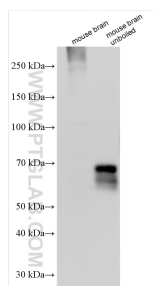
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1%BSA

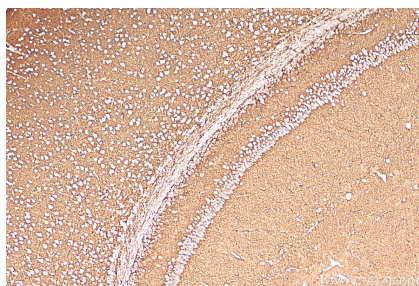
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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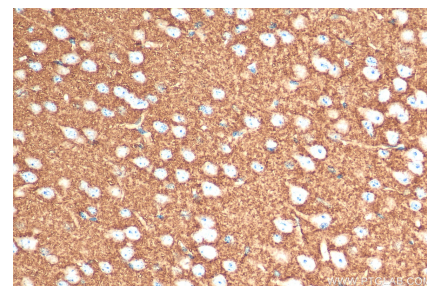
## Selected Validation Data



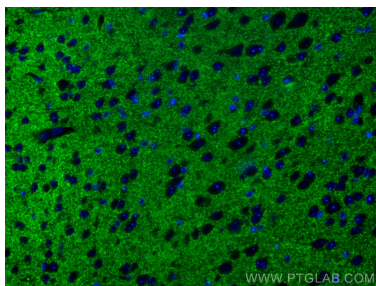
unboiled mouse brain tissue were subjected to SDS PAGE followed by western blot with 29209-1-AP (VGLUT2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



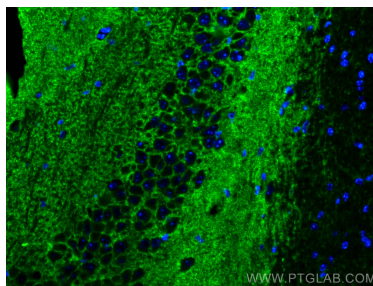
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29209-1-AP (VGLUT2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



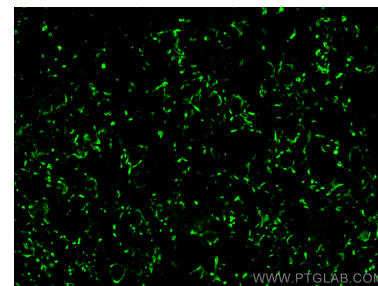
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29209-1-AP (VGLUT2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



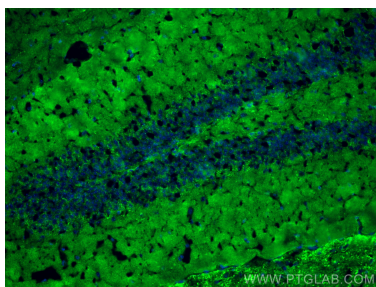
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using VGLUT2 antibody (29209-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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).



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).



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).