

For Research Use Only

# VGLUT2 Polyclonal antibody

Catalog Number: 25261-1-AP



## Basic Information

**Catalog Number:**

25261-1-AP

**Size:**

150ul, Concentration: 900 ug/ml by Nanodrop and 313 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**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 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:8000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, rat

**Positive Controls:**

WB: unboiled rat brain tissue, fetal human 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 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

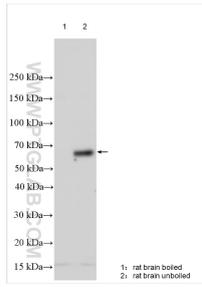
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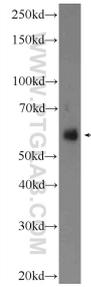
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## Selected Validation Data



unboiled rat brain tissue were subjected to SDS PAGE followed by western blot with 25261-1-AP (VGLUT2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



fetal human brain tissue were subjected to SDS PAGE followed by western blot with 25261-1-AP (VGLUT2 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.