

For Research Use Only

# VGLUT1 Polyclonal antibody, PBS Only

Catalog Number: 29469-1-PBS



## Basic Information

**Catalog Number:**

29469-1-PBS

**Size:**

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

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG31193

**GenBank Accession Number:**

NM\_020309

**GeneID (NCBI):**

57030

**UNIPROT ID:**

Q9P2U7

**Full Name:**

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

**Calculated MW:**

62 kDa

**Observed MW:**

55-60 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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. VGLUT1 has several isoforms with the molecular weight range from 53-61 kDa.

VGLUT1 is a multiple transmembrane protein, which is easily to aggregate if the sample is boiled or treated with high temperature, thus we recommend to use unboiled sample for the detection.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

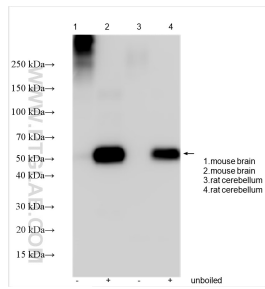
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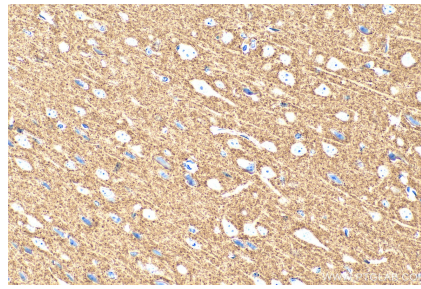
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## Selected Validation Data



Various tissue were subjected to SDS PAGE followed by western blot with 29469-1-AP (VGLUT1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 29469-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29469-1-AP (VGLUT1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 29469-1-PBS in a different storage buffer formulation.