

Anti -VGluT1 Rabbit pAb

GB11821 100µL -20°C

Product Information

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|-----------------------------|---|
| Description | VGLUT1 rabbit polyclonal antibody |
| Protein full name | Vesicular glutamate transporter 1 |
| Synonyms | Slc17a7, SLC17A7, BNPI, VGLUT1, solute carrier family 17 member 7 |
| Immunogen | KLH conjugated Synthetic peptide corresponding to Mouse SLC17A7 |
| Isotype | IgG |
| Purity | Affinity purification |
| Subcellular location | Cell junction, Membrane, Synapse, Synaptosome |
| Predicted MW. | 62 kDa |
| Observed MW. | 62 kDa |
| UniProt ID | Q9P2U7, Q3TXX4, Q62634 |

Applications

| Applications | Species | Dilution | Positive Sample |
|--------------|-------------------|----------------|---|
| WB | Human, Mouse, Rat | 1: 500-1: 1000 | brain, hippocampus, cerebellum, cerebral cortex |
| IHC/IF | Mouse, Rat | 1: 500-1: 3000 | brain, epencephalon |

Background

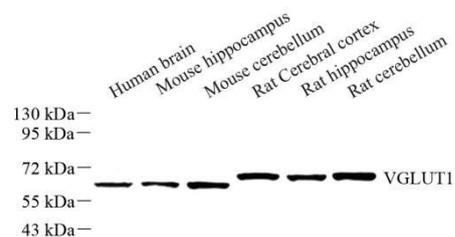
Vesicular glutamate transporter 1 (VGLUT1) is a protein encoded by the SLC17A7 gene. The protein is a vesicle-bound, sodium-dependent phosphate transporter that is specifically expressed in the neuron-rich regions of the brain. It is preferentially associated with the membranes of synaptic vesicles and functions in glutamate transport. The protein shares 82% identity with the differentiation-associated Na-dependent inorganic phosphate cotransporter and they appear to form a distinct class within the Na⁺/Pi cotransporter family.

Storage

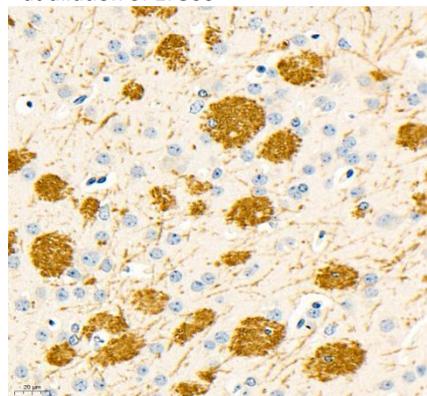
| | |
|-----------------------|--|
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | PBS with 0.02% sodium azide, 100 µg/ml BSA and 50% glycerol. |

NOTE: 1. This product is intended for research only.
2. This product is recommended to dilute with the Primary Antibody Dilution Buffer.

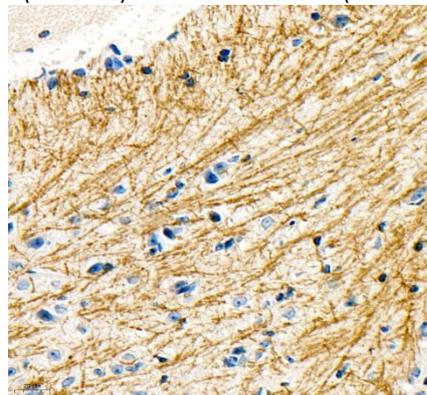
Images



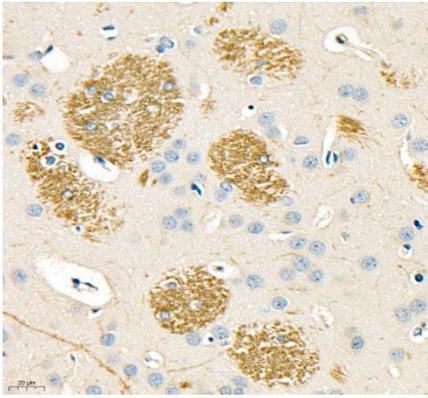
Western blot analysis of VGLUT1 (GB11821) at dilution of 1: 500



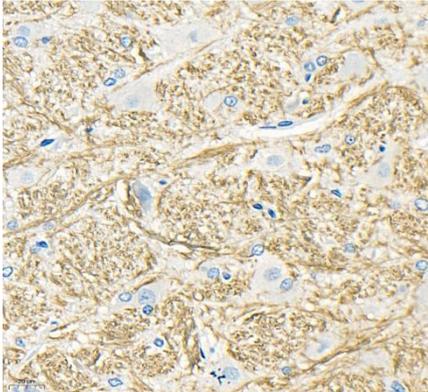
Immunohistochemistry of paraffin embedded mouse brain using VGLUT1 (GB11821) at dilution of 1: 1600 (400x lens)



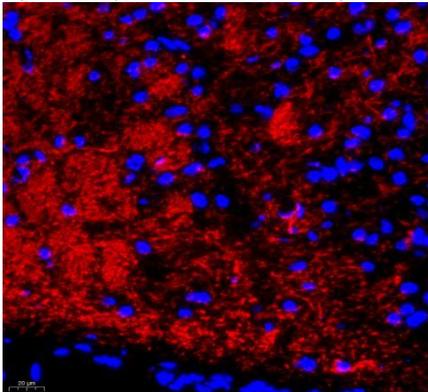
Immunohistochemistry of paraffin embedded mouse epencephalon using VGLUT1 (GB11821) at dilution of 1: 1600 (400x lens)



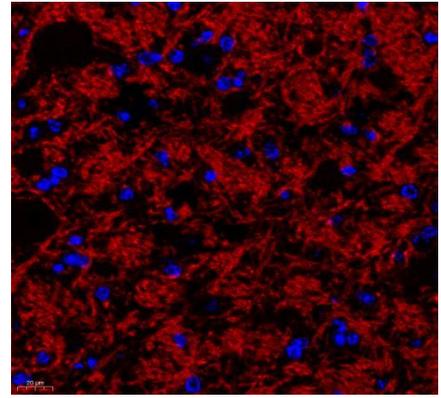
Immunohistochemistry of paraffin embedded rat brain using VGLUT1 (GB11821) at dilution of 1: 1600 (400x lens)



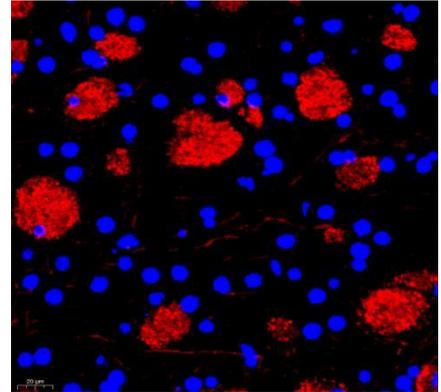
Immunohistochemistry of paraffin embedded rat ependymal layer using VGLUT1 (GB11821) at dilution of 1: 1600 (400x lens)



Immunofluorescence of paraffin embedded mouse brain using VGLUT1 (GB11821) at dilution of 1: 1000 (400x lens)



Immunofluorescence of paraffin embedded mouse ependymal layer using VGLUT1 (GB11821) at dilution of 1: 1000 (400x lens)



Immunofluorescence of paraffin embedded rat brain using VGLUT1 (GB11821) at dilution of 1: 1000 (400x lens)