

HA610283



| | |
|----------------------------|---|
| Product Type: | Recombinant Chimeric Antibody, primary antibodies |
| Species reactivity: | Mouse, Rat |
| Applications: | IHC-Fr, WB, IF-Tissue |
| Molecular Wt: | Predicted band size: 62 kDa |
| Clone number: | PSH10-53 |

Description: Vesicular glutamate transporter 1 (VGLUT1) is a protein that in humans is encoded by the SLC17A7 gene. The protein encoded by this gene 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.

Immunogen: Recombinant protein within Mouse VGLUT1 aa 1-560.

Positive control: Mouse brain tissue lysate.

Subcellular location: Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane, Cell membrane, Synapse, synaptosome.

Database links: SwissProt: Q3TXX4 Mouse | Q62634 Rat

Recommended Dilutions:

| | |
|------------------|---------|
| IHC-Fr | 1:500 |
| WB | 1:5,000 |
| IF-Tissue | 1:500 |

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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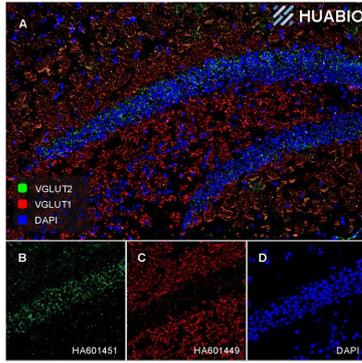
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Images

**Fig1:** Application: IHC-Fr

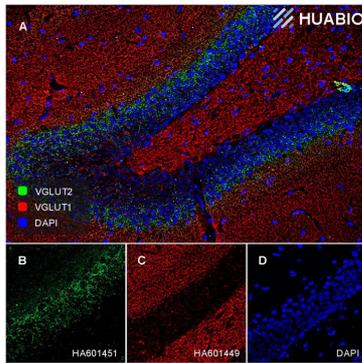
Species: Mouse

Site: hippocampus

Sample: Frozen section

Antibody concentration: 1/500 (VGLUT1, HA610283, Guinea pig, red); 1/500 (VGLUT2, HA601451, Mouse, green)

Antigen retrieval: Not required

**Fig2:** Application: IHC-Fr

Species: Rat

Site: hippocampus

Sample: Frozen section

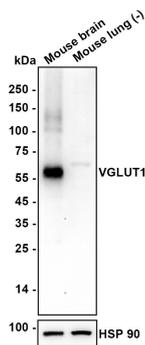
Antibody concentration: 1/500 (VGLUT1, HA610283, Guinea pig, red); 1/500 (VGLUT2, HA601451, Mouse, green)

Antigen retrieval: Not required

Fig3: Western blot analysis of VGLUT1 on different lysates with Guinea pig anti-VGLUT1 antibody (HA610283) at 1/5,000 dilution.

Lane 1: Mouse brain tissue lysate (no heat) (20 µg/Lane)

Lane 2: Mouse lung tissue lysate (no heat) (negative) (20 µg/Lane)



Notice: no heat means the lysate is not boiled.

Predicted band size: 62 kDa

Observed band size: 62 kDa

Exposure time: 6 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA610283) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Rabbit anti-Guinea pig IgG H&L - HRP Secondary Antibody (HA1021) at 1/5,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Souter EA et al. Disruption of VGLUT1 in Cholinergic Medial Habenula Projections Increases Nicotine Self-Administration. *eNeuro*. 2022 Jan
2. Jin S et al. Molecular Profiling of VGluT1 AND VGluT2 Ventral Subiculum to Nucleus Accumbens Shell Projections. *Neurochem Res*. 2023 Aug

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