

# Anti-VGLUT1 Antibody

## HA500488



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	62 kDa

**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<sup>+</sup>/Pi cotransporter family.

**Immunogen:** Synthetic peptide within human VGluT1 aa 1-63 / 560.

**Positive control:** K562 cell lysates, mouse brain tissue lysate, rat brain tissue lysate, mouse cerebellum tissue lysate.

**Subcellular location:** Synaptic vesicle membrane, synaptosome.

**Database links:** SwissProt: Q9P2U7 Human | Q3TXX4 Mouse | Q62634 Rat

**Recommended Dilutions:**  
**WB** 1:500-1:2,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Immunogen affinity purified.

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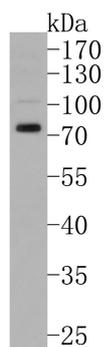
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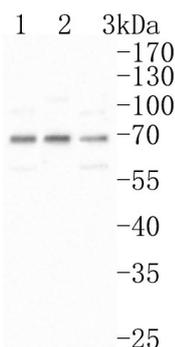
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## Images



**Fig1:** Western blot analysis of VGLUT1 on K562 cell lysates. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA500488, 1/500) was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.



**Fig2:** Western blot analysis of VGLUT1 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA500488, 1/1,000) was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

**Positive control:**

Lane 1: Mouse brain tissue lysate

Lane 2: Rat brain tissue lysate

Lane 3: Mouse cerebellum tissue lysate

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

### Background References

1. Li X. et. al. SLC17A7 gene may be the indicator of selective serotonin reuptake inhibitor treatment response in the Chinese Han population. J Clin Psychopharmacol. 2014 Jun
2. Madura SA. et. al. Genetic variation in SLC17A7 promoter associated with response to sport-related concussions. Brain Inj. 2016

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