

Resource Summary Report

Generated by [RRID](#) on Aug 5, 2026

VGLUT 1 (vesicular glutamate transporter 1, BNPI, SLC17A7)

RRID:AB_887875

Type: Antibody

Proper Citation

Synaptic Systems Cat# 135 303, RRID:AB_887875

Antibody Information

URL: http://antibodyregistry.org/AB_887875

Proper Citation: Synaptic Systems Cat# 135 303, RRID:AB_887875

Target Antigen: VGLUT 1

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: WB,IP,ICC,IHC,IHC-P,EM,ELISA. KO validated. This entry was consolidated with AB_887874, AB_887876.

Antibody Name: VGLUT 1 (vesicular glutamate transporter 1, BNPI, SLC17A7)

Description: This polyclonal targets VGLUT 1

Target Organism: Human, Rat, Cow, Mouse, Sheep, Goat, Dog

Defining Citation: [PMID:18041776](#), [PMID:19226508](#), [PMID:19226511](#), [PMID:17154258](#), [PMID:20127803](#)

Antibody ID: AB_887875

Vendor: Synaptic Systems

Catalog Number: 135 303

Alternative Catalog Numbers: 135 303C5, 135 303C3

Record Creation Time: 20250819T214910+0000

Record Last Update: 20250820T001153+0000

Ratings and Alerts

No rating or validation information has been found for VGLUT 1 (vesicular glutamate transporter 1, BNPI, SLC17A7).

No alerts have been found for VGLUT 1 (vesicular glutamate transporter 1, BNPI, SLC17A7).

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 88 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Casanova-Pagola J, et al. (2026) Early-life cognitive intervention preserves brain function in aged TgF344-AD rats with sex-specific effects. *iScience*, 29(1), 114381.

Unterauer EM, et al. (2025) Protocol for SUM-PAINT spatial proteomic imaging generating neuronal architecture maps in rat hippocampal neurons. *STAR protocols*, 6(1), 103637.

Ho C, et al. (2025) CXCL12 Engages Cortical Inhibitory Neurons to Enhance Dendritic Spine Plasticity and Structured Network Activity. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(24).

Hirota Y, et al. (2025) Biomarker-related phospho-tau217 appears in synapses around A β plaques prior to tau tangle in cerebral cortex of preclinical Alzheimer's disease. *Cell reports*, 116203.

Koesters AG, et al. (2025) Homeostatic synaptic plasticity of miniature excitatory postsynaptic currents in mouse cortical cultures requires neuronal Rab3a. *eLife*, 12.

Mukhopadhyay M, et al. (2025) Persistence of vestibular function in the absence of glutamatergic transmission from hair cells. *bioRxiv : the preprint server for biology*.

Parra-Rivas LA, et al. (2025) Protocol for CRISPR-based manipulation and visualization of endogenous γ -synuclein in cultured mouse hippocampal neurons. *STAR protocols*, 6(3), 103945.

Kroon C, et al. (2025) Phosphorylation of presynaptic PLPPR3 controls synaptic vesicle release. *iScience*, 28(9), 113435.

Mayadali ÜS, et al. (2025) Transmitter and ion channel profiles of saccadic omnipause neurons and cholinergic non-omnipause neurons in human nucleus raphe interpositus. *Frontiers in neuroanatomy*, 19, 1670220.

Castro RW, et al. (2024) Aging spinal cord microglia become phenotypically heterogeneous and preferentially target motor neurons and their synapses. *Glia*, 72(1), 206.

Pfitzer J, et al. (2024) Troriluzole rescues glutamatergic deficits, amyloid and tau pathology, and synaptic and memory impairments in 3xTg-AD mice. *Journal of neurochemistry*.

Atsumi Y, et al. (2024) Repetitive CREB-DNA interactions at gene loci predetermined by CBP induce activity-dependent gene expression in human cortical neurons. *Cell reports*, 43(1), 113576.

Wang G, et al. (2024) The TMEM132B-GABAA receptor complex controls alcohol actions in the brain. *Cell*, 187(23), 6649.

Randolph LK, et al. (2024) Regulation of synapse density by Pumilio RNA-binding proteins. *Cell reports*, 43(10), 114747.

Yan Y, et al. (2024) 3D bioprinting of human neural tissues with functional connectivity. *Cell stem cell*, 31(2), 260.

Lam I, et al. (2024) Rapid iPSC inclusionopathy models shed light on formation, consequence, and molecular subtype of α -synuclein inclusions. *Neuron*, 112(17), 2886.

Leitz J, et al. (2024) Observing isolated synaptic vesicle association and fusion ex vivo. *Nature protocols*, 19(11), 3139.

Daniel JA, et al. (2023) An intellectual-disability-associated mutation of the transcriptional regulator NACC1 impairs glutamatergic neurotransmission. *Frontiers in molecular neuroscience*, 16, 1115880.

Pilotto F, et al. (2023) Early molecular layer interneuron hyperactivity triggers Purkinje neuron degeneration in SCA1. *Neuron*, 111(16), 2523.

Ciarpella F, et al. (2023) Generation of mouse hippocampal brain organoids from primary embryonic neural stem cells. *STAR protocols*, 4(3), 102413.