

Resource Summary Report

Generated by [NIF](#) on Jul 28, 2026

Anti-VGAT

RRID:AB_887873

Type: Antibody

Proper Citation

Synaptic Systems Cat# 131 004, RRID:AB_887873

Antibody Information

URL: http://antibodyregistry.org/AB_887873

Proper Citation: Synaptic Systems Cat# 131 004, RRID:AB_887873

Target Antigen: VGAT (cytoplasmic domain)

Host Organism: guinea pig

Clonality: polyclonal

Comments: Applications: WB,ICC,IHC,IHC-P,EM. KO validated

Antibody Name: Anti-VGAT

Description: This polyclonal targets VGAT (cytoplasmic domain)

Target Organism: Rat, Zebrafish, Mouse

Defining Citation: [PMID:18634004](#)

Antibody ID: AB_887873

Vendor: Synaptic Systems

Catalog Number: 131 004

Record Creation Time: 20250820T040659+0000

Record Last Update: 20250820T180521+0000

Ratings and Alerts

No rating or validation information has been found for Anti-VGAT.

No alerts have been found for Anti-VGAT.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 121 mentions in open access literature.

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

He Z, et al. (2025) Differential Neuronal Activation of Nociceptive Pathways in Neuropathic Pain After Spinal Cord Injury. Cellular and molecular neurobiology, 45(1), 18.

Pandey S, et al. (2025) A critical role of Neuroligin 2 C-terminus in OCD and social behavior. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(19).

Qu T, et al. (2025) The effects of amyloidosis and aging on glutamatergic and GABAergic synapses, and interneurons in the barrel cortex and non-neocortical brain regions. Frontiers in neuroanatomy, 19, 1526962.

Tolve M, et al. (2025) The endocytic adaptor AP-2 maintains Purkinje cell function by balancing cerebellar parallel and climbing fiber synapses. Cell reports, 44(2), 115256.

Kim K, et al. (2025) Meningeal lymphatics-microglia axis regulates synaptic physiology. Cell, 188(10), 2705.

He Z, et al. (2025) Plasticity of synapses innervating spinal motor neurons after spinal cord injury in rhesus monkeys. Journal of neuropathology and experimental neurology.

Bosquez Huerta NA, et al. (2025) Sex-specific astrocyte regulation of spinal motor circuits by Nkx6.1. Cell reports, 44(1), 115121.

Wood RL, et al. (2025) GABA and Glycine Synaptic Release on Axotomized Motoneuron Cell Bodies Promotes Motor Axon Regeneration. The European journal of neuroscience, 61(5), e70045.

Kang M, et al. (2025) Cd99l2 regulates excitatory synapse development and restrains immediate-early gene activation. Cell reports, 44(1), 115155.

Tweedie L, et al. (2025) Modelling a pathological GSX2 variant that selectively alters DNA binding reveals hypomorphic mouse brain defects. Disease models & mechanisms, 18(2).

Chapman CA, et al. (2025) Chronic benzodiazepine treatment triggers gephyrin scaffold destabilization and GABAAR subsynaptic reorganization. Frontiers in cellular neuroscience, 19, 1624813.

Ogawa Y, et al. (2025) Hide-and-Seek genome editing reveals that Gephyrin is required for axo-axonic synapse assembly. Proceedings of the National Academy of Sciences of the United States of America, 122(32), e2500726122.

Brandebura AN, et al. (2025) Dysregulation of astrocyte-secreted pleiotrophin contributes to neuronal structural and functional deficits in Down syndrome. *Cell reports*, 44(10), 116300.

Gomez AM, et al. (2025) Aberrant hypothalamic neuronal activity blunts glucocorticoid diurnal rhythms in murine breast cancer. *Neuron*.

Mittal S, et al. (2024) Arcuate dopaminergic/GABAergic neurons project within the hypothalamus and to the median eminence. *Journal of neurophysiology*, 132(3), 943.

Baytas O, et al. (2024) Loss of mitochondrial enzyme GPT2 leads to reprogramming of synaptic glutamate metabolism. *Molecular brain*, 17(1), 87.

Chen JJ, et al. (2024) Developmental transformation of Ca²⁺ channel-vesicle nanotopography at a central GABAergic synapse. *Neuron*, 112(5), 755.

Irala D, et al. (2024) Astrocyte-secreted neurocan controls inhibitory synapse formation and function. *Neuron*, 112(10), 1657.

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

Savage JT, et al. (2024) SynBot is an open-source image analysis software for automated quantification of synapses. *Cell reports methods*, 4(9), 100861.