

Resource Summary Report

Generated by [NIF](#) on Sep 12, 2026

Anti-VGAT

RRID:AB_887871

Type: Antibody

Proper Citation

(Synaptic Systems Cat# 131 002, RRID:AB_887871)

Antibody Information

URL: http://antibodyregistry.org/AB_887871

Proper Citation: (Synaptic Systems Cat# 131 002, RRID:AB_887871)

Target Antigen: VGAT (cytoplasmic domain)

Host Organism: rabbit

Clonality: polyclonal

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

Antibody Name: Anti-VGAT

Description: This polyclonal targets VGAT (cytoplasmic domain)

Target Organism: Human, Rat, Monkey, Mouse

Defining Citation: [PMID:23386329](#), [PMID:19827159](#), [PMID:17347997](#), [PMID:19226511](#), [PMID:20737600](#)

Antibody ID: AB_887871

Vendor: Synaptic Systems

Catalog Number: 131 002

Record Creation Time: 20260529T050004+0000

Record Last Update: 20260828T180315+0000

Ratings and Alerts

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

Warning: Extracted Antibody Information: "Briefly, slices were incubated in blocking solution containing 3% bovine serum albumin, 10% goat serum and 0.3% Triton in PBS (pH 7.4) for 1 h at room temperature. Primary antibodies rabbit anti-VIAAT (1:500; RRID: **AB_887871**;"

Extracted Specificity Statement: "Subsequently, slices were again rinsed in PBS, mounted on slides, air dried and cover slipped. Although, **specificity** of the anti-VIAAT antibody was previously shown in VIAAT knockout animals by the manufacturer (<https://www.sysy.com/products/vgat/facts-131002.php>), control experiments were performed by blocking the primary antibody with the corresponding control peptide (Catalog No. 131-OP, Synaptic Systems)."

Data was mined by Antibody Watch (<https://arxiv.org/pdf/2008.01937.pdf>), from **PMID:29073893**

Applications: WB,IP,ICC,IHC,IHC-P. KO validated **Warning: Extracted Antibody Information:** "Primary antibodies rabbit anti-VIAAT (1:500; RRID: **AB_887871**;"

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Applications: WB,IP,ICC,IHC,IHC-P. KO validated

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 61 mentions in open access literature.

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

Hatta D, et al. (2026) Proline-Rich Transmembrane Protein 2 Is Variably Expressed Across Excitatory and Inhibitory Neurons in Mouse Motor Circuits. The Journal of comparative neurology, 534(6), e70176.

Kim S, et al. (2026) Bazedoxifene reverses sexually dimorphic autistic-like abnormalities in biallelic MDGA1-mutant mice. EMBO molecular medicine, 18(4), 1358.

Nicholson L, et al. (2025) Insulin resistance alters cortical inhibitory neurons and microglia to exacerbate Alzheimer's knock-in mouse phenotypes. bioRxiv : the preprint server for biology.

Vigo T, et al. (2025) Noradrenergic control of bone marrow and thymus by AgRP neurons is impaired in experimental multiple sclerosis. *Cell reports*, 44(11), 116556.

Köhler I, et al. (2025) Activation of GluN2D-containing NMDA receptors promotes development of axons and axon-carrying dendrites of cortical interneurons. *Cerebral cortex (New York, N.Y. : 1991)*, 35(6).

Avilés EC, et al. (2025) ERG responses to high-frequency flickers require FAT3 signaling in mouse retinal bipolar cells. *The Journal of general physiology*, 157(2).

van Voorst TW, et al. (2025) One-step induction of human GABAergic neurons promotes presynaptic development & synapse maturation. *bioRxiv : the preprint server for biology*.

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).

Wagner VA, et al. (2025) Astrocytic GABA controls fidelity of temporal cortical processing in Fragile X Syndrome. *Neurobiology of disease*, 219, 107233.

Dorrego-Rivas A, et al. (2025) Strikingly different neurotransmitter release strategies in dopaminergic subclasses. *eLife*, 14.

Wei HR, et al. (2024) A microglial activation cascade across cortical regions underlies secondary mechanical hypersensitivity to amputation. *Cell reports*, 43(2), 113804.

Horton S, et al. (2024) Excitatory and inhibitory synapses show a tight subcellular correlation that weakens over development. *Cell reports*, 43(7), 114361.

Van Hook MJ, et al. (2024) Enhanced Synaptic Inhibition in the Dorsolateral Geniculate Nucleus in a Mouse Model of Glaucoma. *eNeuro*, 11(7).

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

Xu Y, et al. (2024) Microglial Refinement of A-Fiber Projections in the Postnatal Spinal Cord Dorsal Horn Is Required for Normal Maturation of Dynamic Touch. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(2).

Manubens-Gil L, et al. (2024) Deficits in neuronal architecture but not over-inhibition are main determinants of reduced neuronal network activity in a mouse model of overexpression of Dyrk1A. *Cerebral cortex (New York, N.Y. : 1991)*, 34(1).

Gil M, et al. (2024) Postweaning Development Influences Endogenous VPAC1 Modulation of LTP Induced by Theta-Burst Stimulation: A Link to Maturation of the Hippocampal GABAergic System. *Biomolecules*, 14(3).

Haggerty DL, et al. (2023) Prenatal methadone exposure selectively alters protein expression in primary motor cortex: Implications for synaptic function. *Frontiers in pharmacology*, 14, 1124108.

Pons-Espinal M, et al. (2023) Deficits in neuronal architecture but not over-inhibition are main determinants of reduced neuronal network activity in a mouse model of

overexpression of Dyrk1A. bioRxiv : the preprint server for biology.

Ruiz SA, et al. (2023) Contextual fear response is modulated by M-type K⁺ channels and is associated with subtle structural changes of the axon initial segment in hippocampal GABAergic neurons. *AIMS neuroscience*, 10(1), 33.