Resource Summary Report

Generated by dkNET on Aug 7, 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: 20260610T070407+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***;"

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

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 dkNET .

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.

Avil??s 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).

K??hler 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).

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.

Yousefpour N, et al. (2023) Time-dependent and selective microglia-mediated removal of spinal synapses in neuropathic pain. Cell reports, 42(1), 112010.

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.