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VGAT cytoplasmic domain

Cat.No. 131 006; Polyclonal chicken antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μg purified IgY, lyophilized. Ovalbumin was added for stabilization. For reconstitution add 50 μl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Before storing at -20°C add 1 vol of glycerol.
Applications	WB: not recommended IP: not tested yet ICC: 1:500 IHC: 1:500 IHC-P/FFPE: 1:500
Immunogen	Recombinant protein corresponding to AA 2 to 115 from rat VGAT (UniProt Id: O35458)
Reactivity	Reacts with: rat, mouse. Other species not tested yet.
Specificity	Specific for VGAT.
matching control	131-0GP

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The **v**esicular **GABA** transporter **VGAT** is responsible for uptake and storage of GABA and glycine by synaptic vesicles in the central nervous system. For this reason it is frequently referred to as the **v** esicular **i**nhibitory **a**mino**a**cid **t**ransporter **VIAAT**. It is different from the plasma membrane transporters in that it is driven by a proton electrochemical gradient across the vesicle membrane. So far, only one isoform is known. VGAT is currently the best marker for inhibitory nerve terminals.

Selected References SYSY Antibodies

The Presynaptic Protein Mover Is Differentially Expressed Across Brain Areas and Synapse Types. Wallrafen R, Dresbach T

Frontiers in neuroanatomy (2018) 12: 58. IHC; tested species: mouse

Selected General References

The vesicular GABA transporter, VGAT, localizes to synaptic vesicles in sets of glycinergic as well as GABAergic neurons. Chaudhry FA, Reimer RJ, Bellocchio EE, Danbolt NC, Osen KK, Edwards RH, Storm-Mathisen J
The Journal of neuroscience: the official journal of the Society for Neuroscience (1998) 18(23): 9733-50.

Identification and characterization of the vesicular GABA transporter. McIntire SL, Reimer RJ, Schuske K, Edwards RH, Jorgensen EM Nature (1997) 389(6653): 870-6.

Cloning of a functional vesicular GABA and glycine transporter by screening of genome databases. Sagné C, El Mestikawy S, Isambert MF, Hamon M, Henry JP, Giros B, Gasnier B FEBS letters (1997) 417(2): 177-83.

Uptake of GABA by rat brain synaptic vesicles isolated by a new procedure. Hell JW, Maycox PR, Stadler H, Jahn R
The EMBO journal (1988) 7(10): 3023-9.