

Vesicular GABA Amino Acid Transporter (VGAT) Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1111

Specification

Vesicular GABA Amino Acid Transporter (VGAT) Antibody - Product Information

Application	WB
Primary Accession	O35458
Reactivity	Rat
Predicted	Bovine, Monkey
Host	Rabbit
Clonality	polyclonal
Calculated MW	53 KDa

Vesicular GABA Amino Acid Transporter (VGAT) Antibody - Additional Information

Gene ID	83612
Gene Name	SLC32A1

Other Names

Vesicular inhibitory amino acid transporter, GABA and glycine transporter, Solute carrier family 32 member 1, Vesicular GABA transporter, rGVAT, Slc32a1, Vgat, Viaat

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification on a column made with the peptide used as antigen.

Antibody Specificity

Specific for the ~53k VGAT protein.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Vesicular GABA Amino Acid Transporter (VGAT) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

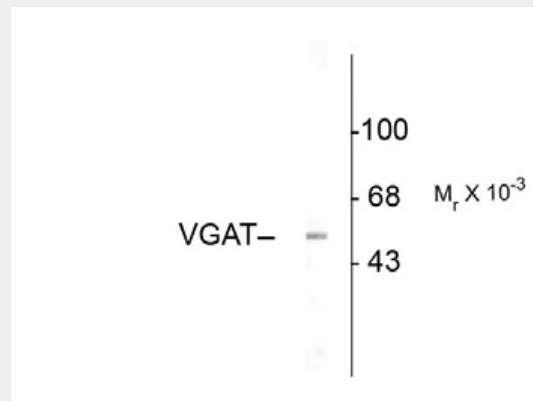
Blue Ice

Vesicular GABA Amino Acid Transporter (VGAT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Vesicular GABA Amino Acid Transporter (VGAT) Antibody - Images



Western blot of rat olfactory bulb lysate showing specific immunolabeling of the ~53k VGAT protein.

Vesicular GABA Amino Acid Transporter (VGAT) Antibody - Background

The Vesicular GABA Amino Acid Transporter (VGAT) is responsible for transport of the inhibitory neurotransmitter into synaptic vesicles (McIntire et al., 1997). The VGAT protein (also known as the Vesicular Inhibitory Amino Acid Transporter or VIAAT) is expressed in synaptic vesicles of both glycine and GABAergic synapses throughout the CNS (Chaudhry et al., 1998). Expression of the VGAT protein changes during development and also in response to patterns of neuronal activity (De et al., 2005).

Vesicular GABA Amino Acid Transporter (VGAT) Antibody - References

- Chaudhry FA, Reimer RJ, Bellocchio EE, Danbolt NC, Osen KK, Edwards RH, Storm-Mathisen J (1998) The vesicular GABA transporter, VGAT, localizes to synaptic vesicles in sets of glycinergic as well as GABAergic neurons. *J Neurosci* 18:9733-9750.
- De GS, Schafer MK, Defamie N, Chen C, Ricci A, Weihe E, Varoqui H, Erickson JD (2005) Homeostatic scaling of vesicular glutamate and GABA transporter expression in rat neocortical circuits. *J Neurosci* 25:7121-7133.
- McIntire SL, Reimer RJ, Schuske K, Edwards RH, Jorgensen EM (1997) Identification and characterization of the vesicular GABA transporter. *Nature (Lond)* 389:870-876.