

GABA Transporter (GAT) 3 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1130**Specification**

GABA Transporter (GAT) 3 Antibody - Product Information

Application	WB
Primary Accession	P31647
Reactivity	Rat
Predicted	Mouse
Host	Rabbit
Clonality	polyclonal
Calculated MW	67 KDa

GABA Transporter (GAT) 3 Antibody - Additional Information

Gene ID	79213
Gene Name	SLC6A11

Other Names

Sodium- and chloride-dependent GABA transporter 3, GAT-3, Solute carrier family 6 member 11, Slc6a11, Gabt3, Gat-3, Gat-b

Target/Specificity

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

Dilution

WB~~ 1:1000

Format

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

Antibody Specificity

Specific for the ~67k GAT-3 protein. Immunolabeling is blocked by the peptide used as antigen.

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

GABA Transporter (GAT) 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

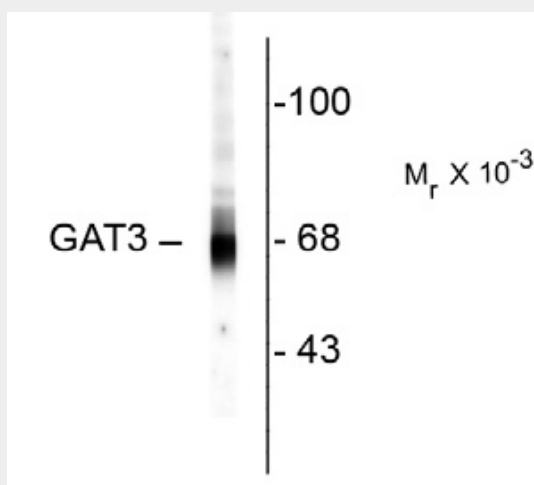
Blue Ice

GABA Transporter (GAT) 3 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](#)

GABA Transporter (GAT) 3 Antibody - Images



Western blot of rat hippocampal homogenate showing specific immunolabeling of the ~ 67k GAT-3 protein.

GABA Transporter (GAT) 3 Antibody - Background

Gamma-aminobutyric acid (GABA) is the primary inhibitory neurotransmitter in the central nervous system, causing a hyperpolarization of the membrane through the opening of a Cl⁻ channel associated with the GABAA receptor (GABAA-R) subtype. GABA plasma membrane transporters (GATs) influence synaptic neurotransmission by high-affinity uptake and release of GABA. To date, four distinct GABA transporters have been identified: GAT-1, GAT-2, GAT-3, and BGT-1. GAT-3 has been found to be localized to astrocytes within the cerebral cortex indicating that this transporter mediates GABA uptake into glial cells (Minelli et al., 1996).

GABA Transporter (GAT) 3 Antibody - References

Minelli A, DeBiasi S, Brecha NC, Zuccarello LV, Conti F (1996) GAT-3, a high-affinity GABA plasma membrane transporter, is localized to astrocytic processes, and is not confined to the vicinity of GABAergic synapses in the cerebral cortex. *J. Neurosci.* 16(19):6255-64.