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GABA Transporter (GAT) 1 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1128

Specification

GABA Transporter (GAT) 1 Antibody - Product Information

Application	**WB**
Primary Accession	P23978
Reactivity	**Rat**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**polyclonal**
Calculated MW	**67 KDa**

GABA Transporter (GAT) 1 Antibody - Additional Information

Gene ID	**79212**
Gene Name	**SLC6A1**

Other Names
Sodium- and chloride-dependent GABA transporter 1, GAT-1, Solute carrier family 6 member 1, Slc6a1, Gabt1, Gat-1, Gat1

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.

Antibody Specificity
Specific for the ~67k GAT-1 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) 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

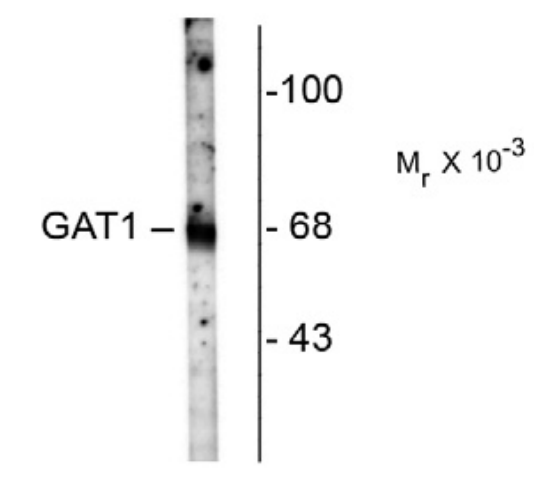
GABA Transporter (GAT) 1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GABA Transporter (GAT) 1 Antibody - Images



Western blot of rat hippocampal homogenate showing specificimmunolabeling of the~ 67k GAT-1 protein.

GABA Transporter (GAT) 1 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-1, the most abundant of the transporters, is found predominantly in neurons, but also in some specialized glia (Minelli et al., 1995). GAT-1 is thought to play a key role in epileptogenesis (Zhao et al. 2003).

GABA Transporter (GAT) 1 Antibody - References

Minelli A, Brecha NC, Karschin C, DeBiasi S, Conti F (1995) GAT-1, a high-affinity GABA plasma membrana transporter, is localizad to neurons and astroglia int he cerebral cortex. J. Neurosci. 15(11):7734-7746.
Zhao WJ, Ma YH, Fei J, Mei ZT, Guo LH (2003) Increase in drug-induced seizure susceptibility of transgenic mice overexpressing GABA transporter 1. Acta Pharmacol. Sin. 24(10):991-5.