**Anti-GABA Transporter (GAT) 3 Antibody**

**Catalog #:** 882-GAT3  
**Size:** 100 µl

<table>
<thead>
<tr>
<th>Host</th>
<th>Applications</th>
<th>Species Tested</th>
<th>Species Reactivity*</th>
<th>Molecular Reference</th>
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</thead>
<tbody>
<tr>
<td>Rabbit</td>
<td>WB 1:1000</td>
<td>R</td>
<td>M</td>
<td>~67 kDa</td>
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<td></td>
<td>IHC 1:100-200</td>
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**Product Description:** Affinity purified rabbit polyclonal antibody.

**Biological Significance:** *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).

**Antigen:** Peptide corresponding to amino acid residues from the C-terminal region of rat GAT-3.

**Antibody Specificity:** Specific for endogenous levels of the ~67 kDa GAT-3 protein. Immunolabeling is blocked by pre-adsorption of antibody with the peptide used to generate the antibody.

**Purification Method:** Prepared from rabbit serum by affinity purification using a column to which the peptide immunogen was coupled.

**Quality Control Tests:** Western blots performed on each lot.

**Packaging:** 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg BSA per ml and 50% glycerol.

**Storage and Stability:** Shipped on blue ice. Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

[Western blot of rat hippocampal lysate showing specific immunolabeling of the ~67 kDa GAT-3 protein.]

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*Species assumed based on 100% homology with sequence used as antigen*
Product Specific References:


General References: