

GABA transporter 3

Cat.No. 274 302; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) (see remarks) IP: yes ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 612 to 627 from mouse GABA transporter3 (UniProt Id: P31650)
Reactivity	Reacts with: rat (P31647), mouse (P31649). Other species not tested yet.
Specificity matching control	Specific for GAT 3. 274-3P
Remarks	WB: GAT 3 aggregates after boiling, making it necessary to run SDS-PAGE with non-boiled samples.

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

γ-aminobutyric acid (GABA) is a major inhibitory neurotransmitter. After the release of GABA from synaptic vesicles into the synaptic cleft during neurotransmission, **GABA transporters** (GATs) remove extracellular GABA by reuptake into the presynaptic terminal.

Three GABA transporters are described so far of which only GAT 1 and GAT 3 are expressed in the brain.

Selected General References

Substrate-mediated regulation of gamma-aminobutyric acid transporter 1 in rat brain.
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Regulation of a gamma-aminobutyric acid transporter by reciprocal tyrosine and serine phosphorylation.
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The Journal of biological chemistry (2004) 279(16): 15961-7.

Functional regulation of gamma-aminobutyric acid transporters by direct tyrosine phosphorylation.
Law RM, Stafford A, Quick MW
The Journal of biological chemistry (2000) 275(31): 23986-91.

Protein kinase C regulates the interaction between a GABA transporter and syntaxin 1A.
Beckman ML, Bernstein EM, Quick MW
The Journal of neuroscience : the official journal of the Society for Neuroscience (1998) 18(16): 6103-12.

Production of specific antibodies against GABA transporter subtypes (GAT1, GAT2, GAT3) and their application to immunocytochemistry.
Ikegaki N, Saito N, Hashima M, Tanaka C
Brain research. Molecular brain research (1994) 26(1-2): 47-54.

Structure, function and brain localization of neurotransmitter transporters.
Jursky F, Tamura S, Tamura A, Mandiyan S, Nelson H, Nelson N
The Journal of experimental biology (1994) 196: 283-95.