

GABA transporter 1

Cat.No. 274-1P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 585 to 599 from mouse GABA transporter1 (UniProt Id: P31648)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	274 102, 274 104
Remarks	This control peptide consists of the synthetic peptide (aa 585-599 of mouse GAT 1) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

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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Beckman ML, Bernstein EM, Quick MW
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