NEUROMICS

GAT-2 (Gamma Aminobutryic Acid Transporter) Datasheet

Catalog Number:	RA24459	**Host:**	Rabbit
Product Type:	Polyclonal whole serum	**Species Reactivity:**	Rat
Immunogen Sequence:	Synthetic peptide sequence corresponding to amino acid (594-602) of the predicted C-terminus of rat GAT-2 coupled to keyhole limpet hemocyanin (KLH) with glutaraldehyde.	**Format:**	Lyophilized (with ≤0.09% sodium azide and 1% BSA)

Applications: Immunohistochemistry 1:500-1:2000

Dilutions listed only as a recommendation. Optimal dilution should be determined by investigator.

Storage: Do not reconstitute until ready to use. For long term storage of lyophilized antibody freeze at -15ºC or lower. Reconstitute with 100 µl of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2º-8ºC up to 2 days. For long term storage, aliquot and freeze at -15ºC or lower. Stable for at least 6 months at -20ºC. Repeated freeze/thaw cycles compromise the integrity of the antiserum.

Application Notes

Immunohistochemistry:
Tissue: Rat leptomeninges and retina

Perfusion Fixation:

- Fixative: 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20 min.
- Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4.
- Note: If needed, low levels of glutaraldehyde (0.1–0.3%) may be used in conjunction with paraformaldehyde

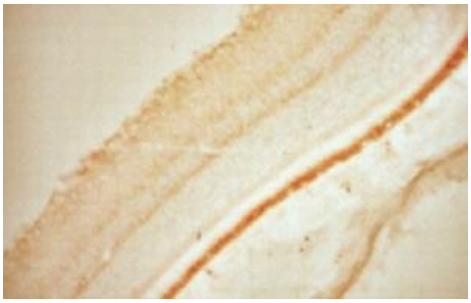
Sections: 10 µm cryostat or 50 µm vibratome

Tissue Incubation: 18–24 hours at 2°–8°C

Detection system: Use Bn/AV-HRP reagents at dilutions recommended by the manufacturer

Suggestion Dilution: 1/500–1/2,000 in PBS/0.3% Triton X-100 - Bn/AV-HRP immunohistochemistry

Image: IHC image of rat retina staining for GABA transporter 2 (GAT-2). The tissue was fixed with 4% formaldehyde/0.05% glutaraldehyde in 0.1 M phosphate buffer, before being removed and prepared for vibratome sectioning. Floating sections were incubated at RT in 10% goat serum in PBS, before standard IHC procedure. Primary antibody was incubated at 1:1000 for 48 hours, goat anti-rabbit secondary was subsequently added for 1 hour after washing with PBS. Light microscopy staining was achieved with standard biotin-streptavidin/HRP procedure and DAB chromogen.



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