



## GAT-2 (Gamma Aminobutyric Acid Transporter) Datasheet

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<b>Catalog Number:</b>	RA24459	<b>Host:</b>	Rabbit
<b>Product Type:</b>	Polyclonal whole serum	<b>Species Reactivity:</b>	Rat
<b>Immunogen Sequence:</b>	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.	<b>Format:</b>	Lyophilized (with $\leq 0.09\%$ sodium azide and 1% BSA)
<b>Applications:</b>	Immunohistochemistry 1:500-1:2000 Dilutions listed only as a recommendation. Optimal dilution should be determined by investigator.		
<b>Storage:</b>	Do not reconstitute until ready to use. For long term storage of lyophilized antibody freeze at $-15^{\circ}\text{C}$ or lower. Reconstitute with 100 $\mu\text{l}$ of distilled or deionized water. After reconstitution, use immediately or refrigerate at $2^{\circ}\text{--}8^{\circ}\text{C}$ up to 2 days. For long term storage, aliquot and freeze at $-15^{\circ}\text{C}$ or lower. Stable for at least 6 months at $-20^{\circ}\text{C}$ . Repeated freeze/thaw cycles compromise the integrity of the antiserum.		

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### 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  $4^{\circ}\text{C}$  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

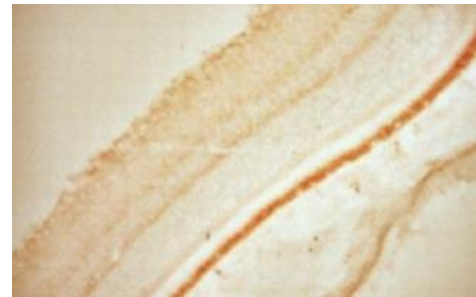
Sections: 10  $\mu\text{m}$  cryostat or 50  $\mu\text{m}$  vibratome

Tissue Incubation: 18–24 hours at  $2^{\circ}\text{--}8^{\circ}\text{C}$

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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