



IHC image of rat retina.

GAT-2 (Gamma Aminobutyric Acid Transporter) Antibody

Catalog #	24459	Product type	Primary antibodies
Lot #	312001	Clonality	Polyclonal
Form	Lyophilized affinity purified serum (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide and 1% BSA
Reacts With	rat	Antigen	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.

INSTRUCTIONS

Preparation	<p>Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be kept cooled during shipping. For long-term storage, store lyophilized antibody until ready to use at -15°C or lower. Reconstitute with 100 µL of distilled or deionized water. To avoid freeze/thaw cycles, dilute unused antibody with PBS or Tris buffer at a dilution no higher than 1/10, then aliquot and freeze at -15°C or lower.</p> <p>Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.</p>
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APPLICATION

IHC Quality Control	The ImmunoStar GAT-2 antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat retina and leptomeninges using indirect immunofluorescent and biotin/avidin-HRP techniques. The antiserum has been characterized as specific to GAT-2. GAT-2 immunolabeling is completely abolished by soluble preadsorption with synthetic rat GAT-2 (594–602) at a concentration of 10–5 M.
Tissue	Rat leptomeninges and retina
Perfusion Fixation	<ul style="list-style-type: none"> 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.
Suggested Dilution	1/500–1/2,000 in PBS/0.3% Triton X-100 - Bn/AV-HRP immunohistochemistry

NOTES

Special Instructions	It is recommended that the researcher perform a primary antibody dilution series using our dilution recommendations as a guideline. Note that a change in the fixation or buffering system from our protocol may change the configuration of the protein which could alter the reactivity with the tissue tested.
Storage	After reconstitution, use immediately or refrigerate at 2°–8°C. For long-term storage, aliquot antibody and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal References	www.immunostar.com/publications

For Laboratory Reagent Use Only. Analytical and performance characteristics are not established.

ALL PRODUCTS ARE FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE