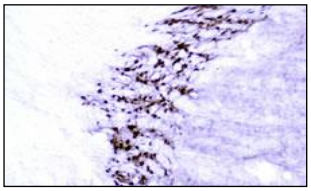
IMMUNOSTAR
Antibodies that Shine



GABA (gamma-Aminobutyric Acid) Antibody

Catalog #	**20094**	**Product type**	Primary antibodies
Lot #	**313002**	**Clonality**	Polyclonal
Form	Lyophilized whole serum (100 µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Reacts With	Cat, Fish, Frog, Monkey, Mouse, Rat, Turtle	**Antigen**	GABA coupled to BSA with glutaraldehyde.

INSTRUCTIONS

Preparation	Do not reconstitute until ready to use since product is most stable when lyophilized. The product does not need to be kept cooled during shipping; however for long-term storage, store lyophilized antibody until ready to use 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. 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 -15ºC or lower. Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.

APPLICATION

IHC Quality Control	The ImmunoStar gamma-Aminobutyric Acid antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat thalamus and cerebellum using indirect immunofluorescent and biotin/avidin-HRP techniques. The specificity of the antiserum for GABA was evaluated using a competitive inhibition ELISA. While conjugates of GABA completely eliminate labeling, a 1000 fold excess of the following conjugates could not inhibit the antiserums ability to bind GABA conjugate: glutamate, aspartate, beta alanine, tyrosine, taurine, glycine and alanine.
Tissue	Rat thalamus and cerebellum
Perfusion Fixation	• Fixative: 4% paraformaldehyde/0.3% glutaraldehyde in 0.1M phosphate buffer, pH 7.4;500 mL 20-30 min • Post Fixation: 1.5 hr. at 4°C in 4% paraformaldehyde/ 0.3% glutaraldehyde in 0.1 M phosphate buffer, pH 7.4. • Note: Glutaraldehyde is a necessary component of fixation with this antibody. Higher concentrations of glutaraldehyde (e.g. 1–2%) may be used if needed.
Sections	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	1/15,000–1/20,000 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 2º–8ºC up to 2 days. 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