



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
Species Reactivity:	Reacts with rat, mouse, turtle.	Antigen:	GABA coupled to bovine serum albumin (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. 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.
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Application:

IHC Quality Control:	The ImmunoStar gamma amino butyric 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 antisera's ability to bind GABA conjugate: glutamate, aspartate, beta alanine, tyrosine, taurine, glycine and alanine.
Tissue:	Rat thalamus and cerebellum
Perfusion Fixation:	<ul style="list-style-type: none"> • Fixative: 4% paraformaldehyde/0.3% glutaraldehyde in 0.1M phosphate buffer, pH 7.4; 500 mL for ~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 biotin/avidin-HRP reagents at dilutions recommended by the manufacturer.
Test Date:	8/10/01
Performed by:	JS/JW
Suggested Dilution:	1/15,000- 1/20,000 in PBS /0.3% Triton X-100 – biotin/avidin-HRP technique

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 as used in our protocol may change the configuration of the protein, and therefore, may alter the reactivity with the tissue tested. Please read the instruction booklet carefully before beginning the procedure.
Storage:	After reconstitution, use immediately or refrigerate at 2°-8° C up to 2 days. For long-term storage, appropriately aliquot antibody to avoid repeated freeze/thaw cycles and freeze at -15° C or lower.
Concentration:	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal References:	Journal references available @ www.immunostar.com

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.