GABA (gamma-Aminobutyric Acid) Antibody • Diluted titer of 1:100

Catalog #	**20095**	**Product type**	Primary antibodies-diluted titer of 1:100
Lot #	**123012**	**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 the 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 antibody produces significant labeling at dilutions of 1/120 – 1/150 (equivalent to 1/12,000 - 1/15,000 in 20094) using biotin-avidin/HRP technique in rat cerebellum and thalamus. Optimal dilution will vary depending upon fixation, labeling technique and/or detection system; therefore, a dilution series is recommended. Immunolabeling is completely abolished by preabsorption with excess GABA/BSA conjugate.
Tissue:	Rat thalamus and cerebellum
Perfusion Fixation	• Fixative: 4% paraformaldehyde/0.3% glutaraldehyde in 0.1M phosphate buffer, pH 7.4; 500 mL over 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 for the GABA antiserum. Higher levels of glutaraldehyde 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 manufacturer.
Suggested Dilution	1/120–1/150 in PBS/0.3% Triton X-100 – Bn/AV-HRP immunohistochemistry Reconstituted serum is at a dilution of 1/100. A further dilution of 120–150 times is needed to obtain the antibody dilution of 1/12,000–1/15,000 used for GABA 20094.

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 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