IMMUNOSTAR
Antibodies that Shine

IHC image of neurons in the raphe nucleus of rat brainstem.

5-HTP (5-Hydtoxytryptophan) Antibody

Catalog #	**24446**	**Product type**	Primary antibodies
Lot #	**1229002**	**Clonality**	Polyclonal
Form	Lyophilized whole serum (100 µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Species Reactivity	Rat, Sea Slug	**Antigen**	5-HTP coupled to BSA with paraformaldehyde

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. 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

Quality Control	The antibody has significant biotin-avidin/HRP staining at a 1/1,000–1/2,000 dilution in rat raphe nuclei. Optimal dilution will vary depending upon fixation, labeling technique and/or detection system; therefore, a dilution series is recommended. The specificity of the antiserum was evaluated using a model system of gelatin-indole plugs by a method similar to published procedures (Shipper and Tilders, 1983). Results showed that the 5-HTP antibody dose dependently stained 5-HTP but did not stain any concentration of 5-HT or 5-HIAA. The antiserum was also tested by preadsorption with indole/paraformaldehyde/BSA conjugates. Staining was completely blocked by preadsorption with 5-HTP conjugate and unaffected by 5-HIAA or 5-HT conjugate.
Tissue	Rat raphe nuclei
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°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	1/1,000–1/2,000 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.
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal References	www.immunostar.com/publications

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