



## 5-HT (Serotonin) Rabbit Antibody

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

<b>Catalog #</b>	<b>20080</b>	<b>Product type</b>	Primary antibodies
<b>Lot #</b>	<b>2347001</b>	<b>Clonality</b>	Polyclonal
<b>Form</b>	Lyophilized whole serum (100 µL)	<b>Isotype</b>	IgG
<b>Host</b>	Rabbit	<b>Preservative</b>	≤ 0.09% sodium azide
<b>Reacts With</b>	Amphibian, Ant, Bacteria, Bee, Beetle, Bird, Buffalo, Canine, Chicken, Cockroach, Crab, Dove, Feline, Ferret, Fish, Fly, Frog, Fruit Bat, Gerbil, Gnat, Guinea Pig, Hamster, Hen, Human, Insect, Lizard, Lobster, Moth, Monkey, Mollusca, Mosquito, Mouse, Mudpuppy, Mussel, Newt, Octopus, Pig, Pigeon, Quail, Rabbit, Rat, Scorpion, Slug, Seahorse, Shark, Sheep, Shrew, Snail, Spider, Starfish, Sting Ray, Squid, Tick, Turkey, Turtle, Worm, Zebra Finch, Zebrafish + more	<b>Antigen</b>	Serotonin coupled to BSA with paraformaldehyde.

### INSTRUCTIONS

<b>Preparation</b>	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 -15°C or lower. Reconstitute with 100 µL of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2°–8°C. 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.  Refer to the Instruction Manual available online at <a href="http://www.immunostar.com">www.immunostar.com</a> for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.
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### APPLICATION

<b>IHC Quality Control</b>	The ImmunoStar Serotonin antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat hypothalamus, raphe nuclei and spinal cord using indirect immunofluorescent and biotin/avidin-HRP techniques. Staining is completely eliminated by pretreatment of the diluted antibody with 25 µg of serotonin/BSA. Cross reactivity of Serotonin antisera was examined. With 5µg, 10µg and 25µg amounts the following substances <b>did not react</b> with diluted Serotonin antisera using the Bn-SA/HRP labeling method: 5-hydroxytryptophan, 5-hydroxyindole -3- acetic acid, and dopamine.
<b>Tissue</b>	Rat hypothalamus, raphe nuclei and spinal cord.
<b>Absorption Control</b>	5-HT/BSA 25 µg/mL diluted serum
<b>Perfusion Fixation</b>	<ul style="list-style-type: none"> <li>Fixative: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 mL over 20 min.</li> <li>Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.</li> <li>Note: Paraformaldehyde is a necessary component in fixation of serotonin. If needed, low levels of glutaraldehyde (0.1-0.3%) may be used in conjunction with paraformaldehyde.</li> </ul>
<b>Sections</b>	10 µm cryostat or 50 µm vibratome
<b>Tissue Incubation</b>	18–24 hours at 2°–8°C
<b>Detection System</b>	Use Cy3 or biotin/avidin-HRP at dilutions recommended by the manufacturers.
<b>Suggested Dilution</b>	1/5,000-1/10,000 in PBS/0.3% Triton X-100 - biotin/avidin-HRP immunohistochemistry

### NOTES

<b>Special Instructions</b>	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.
<b>Concentration</b>	Not applicable. Antibody concentration is only relevant for purified antibodies.
<b>Journal References</b>	<a href="http://www.immunostar.com/publications">www.immunostar.com/publications</a>

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

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