



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

5-HT (Serotonin) Rabbit Antibody

Catalog #	20080	Product type	Primary antibodies
Lot #	1431001	Clonality	Polyclonal
Form	Lyophilized whole serum (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Amphibian, Ant, Bacteria, Bee, Beetle, Bird, Buffalo, Butterfly, 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, New t, 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	Antigen	Serotonin coupled to BSA with paraformaldehyde.

INSTRUCTIONS

Preparation	<p>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.</p> <p>Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.</p>
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APPLICATION

IHC Quality Control	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 did not react with diluted Serotonin antisera using the Bn-SAVHRP labeling method: 5-hydroxytryptophan, 5-hydroxyindole -3- acetic acid, and dopamine.
Tissue	Rat hypothalamus, raphe nuclei and spinal cord.
Absorption Control	5-HT/BSA 25 µg/mL diluted serum
Perfusion Fixation	<ul style="list-style-type: none"> Fixative: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 mL over 20 min. Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4. 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.
Sections	10 µm cryostat or 50 µm vibratome
Tissue Incubation	18–24 hours at 2°–8°C
Detection System	Use Cy3 or biotin/avidin-HRP at dilutions recommended by the manufacturers.
Suggested Dilution	1/10,000-1/15,000 in PBS/0.3% Triton X-100 - biotin/avidin-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.

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 RRID:AB_572263

Journal References

www.immunostar.com/publications

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