



IHC image of neurons in rat cortex.

5-HT (Serotonin) 7 Receptor Antibody

Catalog #	24430	Product type	Primary antibodies
Lot #	2041001L	Clonality	Polyclonal
Form	Liquid (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Cat, Grasshopper, Human, Mouse, Pig, Rabbit, Shrimp, Rat	Antigen	Synthetic peptide sequence corresponding to amino acids (8–23) of the rat 5-HT7 receptor coupled to the carrier protein with glutaraldehyde.

INSTRUCTIONS

Preparation	<p>The antiserum is provided as 100 µL of affinity purified serum containing 1% BSA. Reconstitution is not required. Recommend briefly spinning tube (30 sec. 200xg) to collect contents at bottom of tube.</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 5-HT7 receptor antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat cortex and hippocampus using indirect immunofluorescent and biotin/avidin-HRP techniques. The antibody was characterized by immunohistochemistry. Immunohistochemical staining of rat brain correlates well with Northern blot analysis, in situ hybridization and receptor autoradiography studies. Due to the difficulty with receptor antibodies, blot applications are not warranted and are included as specificity information only. Immunolabeling is completely abolished by preadsorption with synthetic rat 5-HT7 receptor (8-23). BlastP database sequence homology searches indicate that the amino acid sequence is unique to rat 5-HT7A, 5-HT7B and 5-HT7C.
Tissue	Rat cortex and hippocampus
Perfusion Fixation	<ul style="list-style-type: none"> Fixative - 4% paraformaldehyde in 0.05M 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. Use glutaraldehyde (0.1–0.3%) in conjunction with paraformaldehyde.
Sections	50 µm vibratome
Tissue Incubation	48 hours at 2°–8°C
Detection System	Use Bn/AV-HRP reagents at dilutions recommended by the manufacturer.
Suggested Dilution	1/100–1/300 in PBS - Bn/Av-HRP technique Note: use of Triton X-100 or other detergents is not recommended

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	Unopened vial store at 2°–8°C until expiration date.
Concentration	300 µg/ml.
Journal References	www.immunostar.com/publications

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

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