



IHC image of neurons in rat cortex.

## 5-HT (Serotonin) 7 Receptor Antibody

<b>Catalog #</b>	24430	<b>Product type</b>	Primary antibodies
<b>Lot #</b>	1813001L	<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid (100 µL)	<b>Isotype</b>	IgG
<b>Host</b>	Rabbit	<b>Preservative</b>	≤ 0.09% sodium azide
<b>Reacts With</b>	Cat, Grasshopper, Human, Mouse, Pig, Rabbit, Shrimp, Rat	<b>Antigen</b>	Synthetic peptide sequence corresponding to amino acids (8–23) of the rat 5-HT7 receptor coupled to the carrier protein with glutaraldehyde.

### INSTRUCTIONS

<b>Preparation</b>	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.  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 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. 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.
<b>Tissue</b>	Rat cortex and hippocampus
<b>Perfusion Fixation</b>	<ul style="list-style-type: none"> <li>• Fixative - 4% paraformaldehyde in 0.05M phosphate buffer, pH 7.4; 500 mL over 20 min.</li> <li>• Post fixation - 1.5 hour at 4°C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4.</li> <li>• Use glutaraldehyde (0.1–0.3%) in conjunction with paraformaldehyde.</li> </ul>
<b>Sections</b>	50 µm vibratome
<b>Tissue Incubation</b>	48 hours at 2°–8°C
<b>Detection System</b>	Use Bn/AV-HRP reagents at dilutions recommended by the manufacturer.
<b>Suggested Dilution</b>	1/100–1/300 in PBS - Bn/Av-HRP technique Note: use of Triton X-100 or other detergents is not recommended

### 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>Storage</b>	Unopened vial store at 2°–8°C until expiration date.
<b>Concentration</b>	300 µg/ml.
<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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