



IHC image of neurons in rat hippocampus.

5-HT (Serotonin) 5A Receptor Antibody

Catalog #	24429	Product type	Primary antibodies
Lot #	1230001L	Clonality	Polyclonal
Form	Liquid (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Clam, Rat	Antigen	Synthetic peptide sequence corresponding to amino acid (17–34) of the rat 5-HT5A receptor coupled to carrier protein with glutaraldehyde.

INSTRUCTIONS

Preparation	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 www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.
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APPLICATION

IHC Quality Control	The ImmunoStar 5-HT5A Receptor 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. Intensification methods such as nickel will approximately double the dilution factor as recommended. The antibody was characterized by immunoblotting and immunohistochemistry. Immunoblots of rat brain extracts revealed the presence of two bands at molecular weights of 41 and 47 kD. The lower weight band agrees with the calculated molecular weight based on amino acid sequence. The higher weight may represent glycosylated receptor protein. Immunohistochemical staining of rat brain correlates well with Northern blot analysis and in situ hybridization studies. Immunolabeling is completely abolished by preadsorption with synthetic rat 5-HT5A receptor (17–34).
Tissue	Rat cortex and hippocampus
Perfusion Fixation	<ul style="list-style-type: none"> 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 0.1 M 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	48 hours at 2°–8°C
Detection System	Use Cy3 or Bn/AV-HRP reagents at dilutions recommended by the manufacturer.
Suggested Dilution	1/100–1/300 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.
Storage:	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 RRID:AB_572213