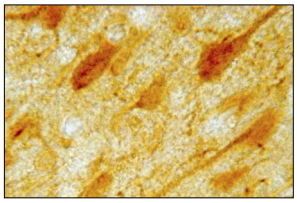
IMMUNOSTAR
Antibodies that Shine



IHC image of neurons in rat cortex.

5-HT (Serotonin) 1A Receptor Antibody

Catalog #	**24504**	**Product type**	Primary antibodies
Lot #	**1825001L**	**Clonality**	Polyclonal
Form	Liquid (100 µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.02% sodium azide
Reacts With	Mouse, Rat	**Antigen**	Synthetic peptide sequence corresponding to amino acids (294–312) of the rat 5-HT1A receptor coupled to bovine thyroglobulin 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. 200 xg) 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.

APPLICATION

Quality Control	The ImmunoStar 5-HT1A receptor antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat cortex, arcuate 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 immunohistochemistry and western blot. Western blot showed a single band of approximately 45 kD. Due to the difficulty with receptor antibodies, western blot applications are not warranted and are included as specificity information only. Preincubation of the antibody with an excess of the synthetic peptide blocked staining. Immunohistochemical staining of rat brain correlates well with Northern analysis, in situ hybridization and receptor autoradiography.
Tissue	Rat cortex, arcuate and hippocampus
Perfusion Fixation	• Fixative: 4% paraformaldehyde/0.05% glutaraldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20 min. • Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde/0.05% glutaraldehyde in 0.1 M phosphate buffer, pH 7.4.
Sections	50 µm vibratome. Cryosections are not recommended as it may disrupt the membrane. This antibody does not work with paraffin embedded tissues.
Tissue Incubation	48 hours at 2°–8° C.
Detection System	Use Bn/AV-HRP at dilutions recommended by the manufacturer. For immunofluorescence stain wash in 1% sodium borohydride after the wash step following fixation in order to quench aldehyde sites and aid in suppressing background. See instructions online for western blot suggestions.
Suggested Dilution	1/200 –1/300 in PBS - Bn/Av-HRP detection. 1/100 or greater in Western Blot. Note: Use of Triton X-100 or other detergents is not recommended. If necessary, use only 0.03% T-X100 in the block only. No more detergent thereafter. Further penetration enhancement may be achieved by subsequent 5 min washes in 10, 25, 40, and 50% ethanol in PBS, followed by reversing wash order back down to PBS.

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 Articles	www.immunostar.com/publications

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