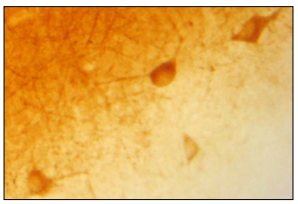
IMMUNOSTAR
Antibodies that Shine



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

## 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. Due to the difficulty with receptor antibodies, western blot applications are not warranted and are included as specificity information only. 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** | • Fixative - 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20 min.<br>• Post Fixation - 1.5 hour at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.<br>• 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 2º–8ºC until expiration date. |
| **Concentration** | 300 µg/ml |
| **Journal References:** | www.immunostar.com/publications |


RRID:AB_572213

www.immunostar.com • email: info@immunostar.com • Tel: 866-386-3500 Fax: 866-386-4500 • ImmunoStar, PO Box 488 Hudson, WI 54016-0488