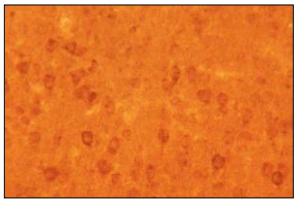
IMMUNOSTAR
Antibodies that Shine



IHC image of the rat cortex.

Neuropeptide Y Y1 Receptor Antibody

Catalog #	**24506**	**Product type**	Primary antibodies
Lot #	**1724001L**	**Clonality**	Polyclonal
Form	Liquid (100 µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Reacts With	Hamster, Human, Mouse, Rat	**Antigen**	Synthetic peptide sequence corresponding to amino acids (356–382) of the rat NPY Y1 receptor coupled to keyhole limpet hemocyanin (KLH) and bovine thyroglobulin (BTg).

INSTRUCTIONS

Preparation	The antiserum is provided as 100 µL of affinity purified liquid 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.

APPLICATION

Quality Control	The ImmunoStar NPY Y1 Receptor 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. The antibody was characterized by immunohistochemistry and western blot. Western blot showed one immunoreactive band of 40 kD and a single high molecular weight band, presumably a precursor molecule. 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. Using intensification methods such as nickel will increase the antibody dilution factor.
Tissue	Rat cortex, hippocampus, thalamus, arcuate.
Perfusion Fixation	• 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	50 µm vibratome
Tissue Incubation	48 hours at 2°–8° C
Detection System	Bn/Av-HRP at dilutions recommended by the manufacturer. NiAS Intensification – Prepare a 5% stock solution of nickel ammonium sulfate in distilled or deionized water. Add 2.5 mL of NiAS stock per 50 mL of DAB solution for use.
Suggested Dilution	1/500–1/1,000 in PBS - Bn/Av-HRP detection technique

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°–8ºC until expiration date.
Concentration	300 µg/ml
Journal References	www.immunostar.com/publications

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