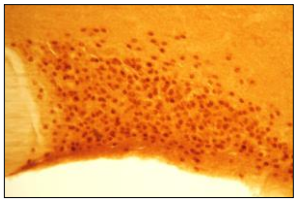
IMMUNOSTAR
Antibodies that Shine



IHC image of neurons in rat supraoptic nucleus.

C-FOS Antibody

Catalog #	**26209**	**Product type**	Primary antibodies
Lot #	**1813001**	**Clonality**	Polyclonal
Form	Lyophilized whole serum (100 µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Reacts With	Mouse, Rat	**Antigen**	Synthetic peptide sequence corresponding to (human) C-FOS (4–17) coupled to Hc with glutaraldehyde

INSTRUCTIONS

Preparation	Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be kept cooled during shipping; however, for long-term storage, store lyophilized antibody until ready to use at -15ºC or lower. Reconstitute with 100 µL of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2º-8ºC. To avoid freeze/thaw cycles, dilute unused antibody with PBS or Tris buffer at a dilution no higher than 1/10, then aliquot and freeze at -15ºC or lower. 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	For induction of c-Fos protein activity, rats were injected with 1.0 ml of 1.5 M NaCl per 100 grams of body weight. Negative control rats were injected with the same volume of normal saline. The ImmunoStar c-Fos antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat paraventricular and supraoptic nuclei using indirect immunofluorescent and biotin/avidin-HRP techniques. The antibody was also validated by challenge with the selective 5HT2a agonist TCB2 (10 mg/kg ip) with results showing massive numbers of cortical pyramidal cells of the TCB2 treated rats, consistent with the distribution of 5HT2a receptors. No labeling was seen in negative control rats. Specificity of the antiserum was demonstrated by blockage of staining in experimental rats by omission of c-Fos antibody or by substitution of antibody pre-incubated with synthetic peptide or the conjugate.
Tissue	Rat brain hypothalamus (paraventricular and supraoptic nuclei) and cortex.
Perfusion Fixation	• Fixative: 4% paraformaldehyde-0.05% glutaraldehye in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20–30 min. • Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde-0.05% glutaraldehye in 0.1M phosphate buffer, pH 7.4.
Sections	50 µm vibratome
Tissue Incubation	18–24 hours at 2°–8°C.
Detection System	Use IF or Bn/Av-HRP reagents at dilutions recommended by the manufacturer.
Suggested Dilution	1/4,000–1/6,000 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.
Long-Term Storage	After reconstitution, use immediately or refrigerate at 2º–8ºC up to 2 days. For long-term storage, aliquot and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles.
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal References	www.immunostar.com/publications

 RRID:AB_572267