



IHC image of a single neuron in rat cortex.

nNos:C-Terminal (neuronal Nitric Oxide Synthase) Antibody

Catalog #	24287	Product type	Primary antibodies
Lot #	1422001	Clonality	Polyclonal
Form	Lyophilized whole serum (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Cat, Chick, Ferret, Guinea Pig, Hamster, Human, Monkey, Mouse, Opossum, Rat, Shrew, Squirrel Monkey, Vole, Zebrafish	Antigen	C-terminal synthetic peptide sequence corresponding to amino acids (1419-1433) of human nNos coupled to KLH.

INSTRUCTIONS

Preparation	<p>Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be cooled during shipping; however, for long-term storage, store lyophilized antibody until ready to use at -15°C or lower. Reconstitute with 100 µL of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2°–8°C. 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 -15°C or lower.</p> <p>Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.</p>
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APPLICATION

IHC Quality Control	The ImmunoStar neuronal Nitric Oxide Synthase C-terminal antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat hypothalamus, striatum, cortex and spinal cord using indirect immunofluorescent and biotin/avidin-HRP techniques. Western blot analysis of brain homogenates shows the antibody specifically labels a band of approximately 155 kD. Immunolabeling is completely abolished by preadsorption with synthetic human nNOS (1419–1433) at 5 µg per mL of diluted antibody. No cross reactivity with other forms of NOS were observed.
Tissue	Rat hypothalamus, striatum, cortex and spinal cord
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 0.1M 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	18–24 hours at 2°–8°C
Detection System	Use Cy3 or Bn/Av-HRP reagents at dilutions recommended by the manufacturers.
Suggested Dilution	1/8,000–1/12,000 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.
Storage	After reconstitution, use immediately or refrigerate at 2°–8°C up to 2 days. For long-term storage, aliquot antibody 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

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_572256