



IHC image of staining in rat spinal cord

Substance P Antibody

Catalog #	20064	Product type	Primary antibodies
Lot #	1003002	Clonality	Polyclonal
Form	Lyophilized whole serum (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Bird, Cat, Chicken, Dog, Dolphin, Doves, Fish, Frog, Gerbil, Goat, Guinea Pig, Hamster, Horse, Human, Monkey, Mouse, Mudpuppy, Parrot, Pig, Pigeon, Quail, Rabbit, Ram, Rat, Ratfish, Salmon, Sea Lamprey, Sheep, Snail, Squirrel, Starfish, Sting Ray, Sturgeon, Three-Spined Stickleback, Trout, Turtle, Vole, Zebra Finch, Zebrafish	Antigen	Synthetic Substance P coupled to KLH with carbodiimide.

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 kept 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	<p>The Substance P antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant positive labeling of rat substantia nigra and spinal cord using indirect immunofluorescent and biotin/avidin-HRP techniques. Specificity was demonstrated using soluble preadsorption with the peptides in question at a final concentration of 10 µg of peptide per mL of diluted antiserum. Immunolabeling was completely abolished by preadsorption with Substance P.</p> <p>Preadsorption with the following peptides resulted in no reduction of immunostaining: neurokinin A, neurokinin B, somatostatin and neuropeptide K.</p>
Tissue	Rat spinal cord (dorsal horn) and substantia nigra
Perfusion Fixation	<ul style="list-style-type: none"> Fixative: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 mL for 20-30 min. Post Fixation: 1.5 hours at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.
Sections	10 µm cryostat
Tissue Incubation	18–24 hours at 2°–8°C.
Detection System	Use Cy3 or Bn/AV-HRP reagents according to manufacturers' directions.
Suggested Dilution	1/6,000 – 1/8,000 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 any 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 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_572266