



IHC image of the dorsal horn of rat spinal cord.

CGRP (Calcitonin Gene Related Peptide) Antibody

Catalog #	24112	Product type	Primary antibodies
Lot #	2205001	Clonality	Polyclonal
Form	Lyophilized whole serum (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Bullfrog, Cat, Dog, Hamster, Human, Mouse, Mudpuppy, Pig, Platypus, Ram, Rat, Sheep	Antigen	Synthetic rat alpha-CGRP coupled to bovine thyroglobulin (BTg) with glutaraldehyde.

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	The antibody has significant fluorescein staining at a 1/100–1/200 dilution and significant Biotin/avidin-HRP staining at a 1/2,000–1/4,000 dilution in rat amygdala, and spinal cord. The specificity of the antiserum was evaluated by soluble preadsorption with the peptides in question at a final concentration of 10 ⁻⁵ M. CGRP immunolabeling was completely abolished by preadsorption with rat α-CGRP and partially eliminated by preadsorption with rat β-CGRP. Preadsorption with the following peptides resulted in no loss of immunostaining: rat amylin, rat adrenomedulin, calcitonin, neurotensin, somatostatin, substance P, leucine enkephalin, methionine enkephalin, VIP, CCK-8, vasopressin and neuropeptide Y.
Tissue	Rat amygdala and spinal cord
Perfusion Fixation	<ul style="list-style-type: none"> Fixative: 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4; 500 mL over 20-30 min. Post Fixation: 1.5 hr. 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 according to manufacturer's directions.
Suggested Dilution	1/2,000–1/4,000 in PBS/0.3% Triton X-100 – Bn/AV-HRP immunohistochemistry

NOTES

Special Instructions	It is recommended that users perform a primary antibody dilution series using the dilution recommendations above 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 and freeze at -15°C or lower. Avoid repeated freeze/thaw cycles.
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal Articles	www.immunostar.com/publications

For Laboratory Reagent Use Only. Analytical and performance characteristics are not established.

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