



## CGRP (Calcitonin Gene Related Peptide) Antibody

IHC image of the dorsal horn of rat spinal cord.

<b>Catalog #</b>	24112	<b>Product type</b>	Primary antibodies
<b>Lot #</b>	1951001	<b>Clonality</b>	Polyclonal
<b>Form</b>	Lyophilized whole serum (100 µL)	<b>Isotype</b>	IgG
<b>Host</b>	Rabbit	<b>Preservative</b>	≤ 0.09% sodium azide
<b>Reacts With</b>	Bullfrog, Cat, Dog, Hamster, Human, Mouse, Mudpuppy, Pig, Platypus, Ram, Rat, Sheep	<b>Antigen</b>	Synthetic rat alpha-CGRP coupled to bovine thyroglobulin (BTg) with glutaraldehyde.

### INSTRUCTIONS

<b>Preparation</b>	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.  Refer to the Instruction Manual available online at <a href="http://www.immunostar.com">www.immunostar.com</a> for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.
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### APPLICATION

<b>IHC Quality Control</b>	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 <sup>-5</sup> 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.
<b>Tissue</b>	Rat amygdala and spinal cord
<b>Perfusion Fixation</b>	<ul style="list-style-type: none"> <li>Fixative: 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4; 500 mL over 20-30 min.</li> <li>Post Fixation: 1.5 hr. at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.</li> </ul>
<b>Sections</b>	10 µm cryostat
<b>Tissue Incubation</b>	18–24 hours at 2°–8°C.
<b>Detection System</b>	Use Cy3 or Bn/AV-HRP according to manufacturer's directions.
<b>Suggested Dilution</b>	1/2,000–1/4,000 in PBS/0.3% Triton X-100 – Bn/AV-HRP immunohistochemistry

### NOTES

<b>Special Instructions</b>	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.
<b>Storage</b>	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.
<b>Concentration</b>	Not applicable. Antibody concentration is only relevant for purified antibodies.
<b>Journal Articles</b>	<a href="http://www.immunostar.com/publications">www.immunostar.com/publications</a>

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

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