



IHC image of neurons in rat anterior pituitary gland.

## ACTH (Adrenocorticotrophic Hormone) Antibody

<b>Catalog #</b>	20070	<b>Product type</b>	Primary antibodies
<b>Lot #</b>	2040001	<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>	Dove, Eel, Goldfish, Hamster, Human, Monkey, Mouse, Ram, Rat, Trout	<b>Antigen</b>	Adrenocorticotrophic hormone (ACTH) corresponding to amino acids (1-39) generated against porcine pituitary

### INSTRUCTIONS

<b>Preparation</b>	<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 vial 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 <a href="http://www.immunostar.com">www.immunostar.com</a> for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.</p>
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### APPLICATION

<b>IHC Quality Control</b>	The antibody produces 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 anterior/intermediate pituitary. Optimal dilution will vary depending upon fixation, labeling technique and/or detection system; therefore, a dilution series is recommended. Staining is completely eliminated by pretreatment of the diluted antibody with 100 µg/mL of ACTH.
<b>Tissue</b>	Rat anterior and intermediate pituitary
<b>Absorption Control</b>	ACTH 100 µg/mL diluted serum
<b>Perfusion Fixation</b>	<ul style="list-style-type: none"> <li>Fixative: 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20 min.</li> <li>Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4.</li> <li>Note: If needed, low levels of glutaraldehyde (0.1–0.3%) may be used in conjunction with paraformaldehyde.</li> </ul>
<b>Sections</b>	10 µm cryostat
<b>Tissue Incubation</b>	18-24 hours at 2–8°C.
<b>Detection System</b>	Use IF or Bn-avidin/HRP according to manufacturers' 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 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.
<b>Storage</b>	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
<b>Concentration</b>	Not applicable. Antibody concentration is only relevant for purified antibodies.
<b>Journal References</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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