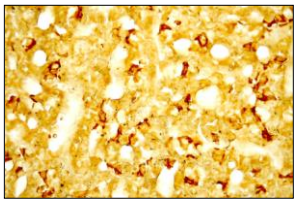
IMMUNOSTAR
Antibodies that Shine



IHC image of neurons in rat anterior pituitary gland.

# ACTH (Adrenocorticotropic Hormone) Antibody

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| **Catalog #** | **20070** | **Product type** | Primary antibodies |
| **Lot #** | 902606 | **Clonality** | Polyclonal |
| **Form** | Lyophilized whole serum (100 µL) | **Isotype** | IgG |
| **Host** | Rabbit | **Preservative** | ≤ 0.09% sodium azide |
| **Reacts With** | Dove, Eel, Goldfish, Hamster, Human, Monkey, Mouse, Ram, Rat, Trout | **Antigen** | Adrenocorticotropic hormone (ACTH) corresponding to amino acids (1-39) generated against porcine pituitary |

## INSTRUCTIONS

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| **Preparation** | 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 -15ºC or lower. Reconstitute vial with 100 µL of distilled or deionized water. After reconstitution, use immediately or refrigerate at 2º–8ºC. 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 -15ºC or lower.<br><br>Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas. |

## APPLICATION

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| **IHC Quality Control** | The antibody produces significant fluorescein staining and 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. |
| **Tissue** | Rat anterior and intermediate pituitary |
| **Absorption Control** | ACTH 100 µg/mL diluted serum |
| **Perfusion Fixation** | • Fixative: 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20 min.<br>• Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4.<br>• Note: If needed, low levels of glutaraldehyde (0.1–0.3%) may be used in conjunction with paraformaldehyde. |
| **Sections** | 10 µm cryostat |
| **Tissue Incubation** | 18-24 hours at 2–8°C. |
| **Detection System** | Use IF or Bn-avidin/HRP according to manufacturers' directions. |
| **Suggested Dilution** | 1/2,000–1/4,000 in PBS/0.3% Triton X-100 – Bn/AV-HRP immunohistochemistry |

## NOTES

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| **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 2º–8ºC 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/literature/ |


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