IMMUNOSTAR
Antibodies that Shine

IHC image of neurons in rat hypothalamus.

Alpha-MSH (Melanocyte Stimulating Hormone) Antibody

Catalog #	**20074**	**Product type**	Primary antibodies
Lot #	1340001	**Clonality**	Polyclonal
Form	Lyophilized whole serum (100 µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Reacts With	Cat, Frog, Guinea Pig, Hamster, Human, Monkey, Mouse, Rabbit, Rat, Trout	**Antigen**	Synthetic human a-MSH coupled to bovine thyroglobulin with glutaraldehyde.

INSTRUCTIONS

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 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. Refer to the Instruction Manual available online at www.immunostar.com for information on tissue preparation, immunostaining techniques, troubleshooting, and formulas.

APPLICATION

IHC Quality Control	The ImmunoStar alpha melanocyte stimulating hormone antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates significant labeling of rat pituitary using indirect immunofluorescent and biotin/avidin-HRP techniques. Staining is completely eliminated by pretreatment of the diluted antibody with 100 µg/mL of α-MSH.
Absorption Control	α-MSH 100 µg/mL diluted serum
Tissue	Rat pituitary
Perfusion Fixation	• Fixative: 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over 20 min. • Post Fixation: 1.5 hour at 4°C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4. • 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/AV-HRP according to manufacturers' directions.
Suggested Dilution	1/4,000–1/6,000 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 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. Please read the instruction booklet carefully before beginning the procedure.
Storage	After reconstitution, use immediately or refrigerate at 2º–8ºC 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 References	www.immunostar.com/publications

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