



IHC image of neurons in rat hypothalamus.

Histamine Antibody

Catalog #	22939	Product type	Primary antibodies
Lot #	1006001	Clonality	Polyclonal
Form	Lyophilized whole serum (100 µL)	Isotype	IgG
Host	Rabbit	Preservative	≤ 0.09% sodium azide
Reacts With	Bee, Copepods, Crab, Flea, Fly, Locust, Marine, Monkey, Moth, Mouse, Pig, Rat, Sea Slug, Snail	Antigen	Synthetic histamine coupled to succinylated keyhole limpet hemocyanin (KLH) with carbodiimide (CDI) linker.

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 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	<p>Histamine is located in mast cells, endocrine cells of the gut, blood cells and in some cells of the peripheral and central nervous system. Histamine is a potent vasodilator when secreted by mast cells found in various tissues as a result of allergic hypersensitivity or inflammation. In the central nervous system, histamine is putative neurotransmitter. In the brain, its highest content has been found in the hypothalamus and in certain areas of the mesencephalon. The Histamine antiserum has a sensitivity level capable of detecting the low level Histamine contents of the brain.</p> <p>In rat hypothalamus the antiserum has significant staining at a 1/500–1/1000 dilution using the indirect immunofluorescence method and significant staining at a 1/4,000–1/6,000 dilution using the biotin-streptavidin/HRP staining method. All staining is blocked by preabsorption of the antiserum with Histamine conjugate. Cross reactivity experiments indicate no cross reactivity with L-histidine or L-histidine containing peptides such as LH-RH.</p>
Tissue	Rat Hypothalamus
Perfusion Fixation	<ul style="list-style-type: none"> Fixation: 4% carbodiimide in phosphate buffered saline, pH 7.4; 200 mL over 20 min. Post Fixation: 1.5 hr. at 4°C in 4% carbodiimide in phosphate buffered saline, pH 7.4.
Sections	10 µm cryostat (vibratome sections are not recommended)
Tissue Incubation	18–24 hours at 2°–8°C
Detection System	Use Cy3 or Bn/AV-HRP according to manufacturer's directions.
Suggested Dilution	1/4,000–1/6,000 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.
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 References	www.immunostar.com/publications

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

ALL PRODUCTS ARE FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE

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