IMMUNOSTAR
Antibodies that Shine

IHC image of the median eminence.

Somatostatin Antibody

Catalog #	**20067**	**Product type**	Primary antibodies
Lot #	**216002**	**Clonality**	Polyclonal
Form	Lyophilized whole serum (100 µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Reacts With	Amphibian, Alligator, Bat, Bird, Buffalo, Cat, Chicken, Dog, Duck, Fish, Frog, Guinea Pig, Hamster, Human, Leopard Frog, Lizard, Monkey, Moth, Mouse, Pig, Pigeon, Quail, Rabbit, Raccoon, Rat, Sheep, Snail, Snake, Starfish, Sting Ray, Turtle, Zebrafish	**Antigen**	Synthetic Somatostatin coupled to keyhole limpet hemocyanin (KLH) with carbodiimide (CDI) linker.

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. 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 antibody produces significant indirect immunofluorescent staining at a 1/400–1/800 dilution and significant Biotin-avidin/HRP staining at a 1/1,000–1/2,000 dilution in rat hypothalamus (median eminence). The specificity of the antiserum was examined by soluble preadsorption with the peptides at a final concentration of 10^6 M. Somatostatin immunolabeling was completely abolished by preadsorption with somatostatin, somatostatin 25, and somatostatin 28. Preadsorption with the following peptides resulted in no reduction of immunostaining: substance P, amylin, glucagon, insulin, neuropeptide Y, and VIP.
Tissue	Rat hypothalamus (median eminence)
Perfusion Fixation	• Fixation: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 mL over 20-30 min • Post Fixation: 1.5 hr. at 4°C. in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.
Sections	10 µm cryostat
Tissue Incubation	18–24 hours at 2°–8°C
Detection System	Use Cy3 or Bn-AV/HRP reagents at dilutions recommended by manufacturers.
Suggested Dilution	1/1,000–1/2,000 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 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/publications

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