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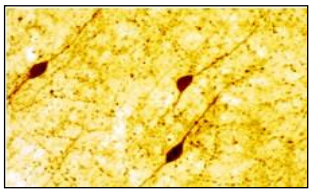
Antibodies that Shine



IHC image of rat cortex staining.

VIP (Vasoactive Intestinal Peptide) Antibody

Catalog #	**20077**	**Product type**	Primary antibodies
Lot #	**1339001**	**Clonality**	Polyclonal
Form	Lyophilized whole serum (100µL)	**Isotype**	IgG
Host	Rabbit	**Preservative**	≤ 0.09% sodium azide
Reacts With	Buffalo, Chicken, Guinea Pig, Hamster, Human, Monkey, Mouse, Pig, Rat, Sparrow, Sting Ray	**Antigen**	Porcine VIP coupled to bovine thyroglobulin (BTg) 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; 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 antibody has significant fluorescent staining at a 1/200–1/400 dilution and significant Biotin/avidin-HRP staining at a 1/4000-1/6000 dilution in rat amygdala, cortex, and suprachiasmatic nucleus. The specificity of the antiserum was examined by soluble preadsorption with the peptides in question at a final concentration of 10^{-5} M. VIP immunolabeling was completely abolished by preadsorption with VIP. Preadsorption with the following peptides resulted in no reduction of immunostaining: secretin, gastric inhibitory polypeptide, somatostatin, glucagon, insulin, ACTH, gastrin 34, FMRF-amide, rat GHRF, human GHRF, peptide histidine isoleucine 27, rat pancreatic polypeptide, motilin, peptide YY, substance P, neuropeptide Y, and CGRP.
Tissue	Rat amygdala, cortex and suprachiasmatic nucleus
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 or 50 µm vibratome
Tissue Incubation	18–24 hours at 2º–8ºC
Detection System	Use Bn-AV/HRP or IF reagents at dilutions recommended by the manufacturers.
Suggested Dilution	1/8,000–1/10,000 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 any 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 -15ºC or lower. Avoid repeated freeze/thaw cycles.
Concentration	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal References	www.immunostar.com/publications