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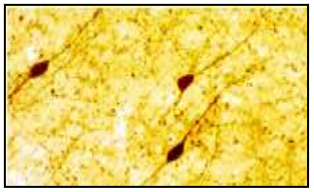
Antibodies that Shine



IHC image of rat cortex.

# VIP (Vasoactive Intestinal Peptide) Antibody

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| **Catalog #** | **20077** | **Product type** | Primary antibodies |
| **Lot #** | **1513001** | **Clonality** | Polyclonal |
| **Form** | Lyophilized whole serum (100µL) | **Isotype** | IgG |
| **Host** | Rabbit | **Preservative** | ≤ 0.09% sodium azide |
| **Reacts With** | Bat, Bird, Buffalo, Cat, Chicken, Dog, Fish, Fox, Frog, Guinea Pig, Hamster, Human, Lizard, Mink, Mole, Mollusk, Monkey, Mouse, Pig, Pigeon, Possum, Rabbit, Raccoon, Rat, Sheep, Snake, Squirrel, Starfish, Sting Ray, Turtle, Worm + More | **Antigen** | Porcine VIP coupled to bovine thyroglobulin (BTg) with carbodiimide (CDI) linker. |

## 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 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 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.<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 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

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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 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. |

 RRID:AB_572270

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| **Journal References** | www.immunostar.com/publications |