



## VIP (Vasoactive Intestinal Peptide) Antibody

<b>Catalog #:</b>	<b>20077</b>	<b>Product type:</b>	Primary antibodies
<b>Lot #:</b>	<b>722001</b>	<b>Clonality:</b>	Polyclonal
<b>Form:</b>	Lyophilized whole serum (100µL)	<b>Isotype:</b>	IgG
<b>Host:</b>	Rabbit	<b>Preservative:</b>	≤ 0.09% sodium azide
<b>Species Reactivity:</b>	Reacts with rat, mouse, hamster, monkey, zebra fish, buffalo, guinea pig, white throated sparrow.	<b>Immunogen:</b>	Synthetic VIP coupled to bovine thyroglobulin (BTg) with carbodiimide (CDI) linker.

### Instructions

<b>Preparation:</b>	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. 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.
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### Application:

<b>IHC Quality Control:</b>	The antibody has significant fluorescent staining at a 1/200-1/400 dilution and significant Biotin-Streptavidin/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 pre-adsorption with the peptides in question at a final concentration of 10 <sup>-5</sup> M. VIP immunolabeling was completely abolished by pre-adsorption with VIP. Pre-adsorption 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.
<b>Tissue:</b>	Rat amygdala, cortex and suprachiasmatic nucleus
<b>Perfusion Fixation:</b>	<ul style="list-style-type: none"> <li>• Fixative: 4% paraformaldehyde in 0.1M Phosphate buffer, pH 7.4; 500 mL over ~ 20 min.</li> <li>• Post Fixation: 1.5 hour at 4° C in 4% paraformaldehyde in 0.1M phosphate buffer, pH 7.4.</li> <li>• Note: If needed, low levels of glutaraldehyde (0.1-0.3%) may be used in conjunction with paraformaldehyde.</li> </ul>
<b>Sections:</b>	10 µm cryostat or 50 µm vibratome
<b>Tissue Incubation:</b>	18-24 hours at 2-8° C
<b>Detection System:</b>	Use Bn-SA/HRP and FITC reagents at dilutions recommended by the manufacturers.
<b>Test Date:</b>	04/09/03
<b>Performed by:</b>	JS
<b>Suggested Dilution:</b>	1/200-1/400 in PBS/0.3% Triton X-100 - FITC Technique 1/4,000-1/6,000 in PBS/0.3% Triton X-100 – Bn-SA/HRP Technique

### Notes:

<b>Special Instructions:</b>	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 as used in our protocol may change the configuration of the protein, and therefore, may alter the reactivity with the tissue tested. Please read the instruction booklet carefully before beginning the procedure.
<b>Storage:</b>	After reconstitution, use immediately or refrigerate at 2°-8° C up to 2 days. For long-term storage, appropriately aliquot antibody to avoid repeated freeze/thaw cycles and freeze at -15° C or lower.
<b>Concentration:</b>	Not applicable. Antibody concentration is only relevant for purified antibodies.
<b>Journal References:</b>	Journal references available @ <a href="http://www.immunostar.com">www.immunostar.com</a>

*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.**