



## Polyclonal (Rabbit) antibody to **VASOACTIVE INTESTINAL PEPTIDE (VIP)**

### *Technical Data Sheet*

#### Reagent Category

Polyclonal primary antibody to VIP

PRODUCT# IMI31761E (Ready-To-Use)

PRODUCT# IMI31752E (Concentrate)

#### Antibody Formats Supplied

7 ml of anti VIP, Ready-To-Use

0.2 ml of anti VIP, Concentrate

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**SOURCE:** Rabbit

**IMMUNOGEN:** Synthetic vasoactive intestinal peptide

**POSITIVE CONTROL TISSUE:** Brain, gastrointestinal tissue

#### **REACTIVITY**

This VIP antibody reacts with vasoactive intestinal peptide, a 28 amino acid neuropeptide that is widely distributed in the central nervous system. VIP is localized in the brain, neurons of the gastrointestinal tract, spinal cord, exocrine glands and also in non-neuron tissues such as mast cells and leukocytes. This antibody is often employed in studying the expression and mode of action of VIP in the central nervous system and peripheral nervous system. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections or cell smears/ cytopspins. It is compatible with formalin fixed tissues/cells and with other commonly used histological fixatives. This antibody is also suitable for use by ELISA, Immunoblotting, dot blotting and for immunofluorescence staining.

#### **Antibody FORMAT, DILUTION and INCUBATION**

This polyclonal mouse anti VIP antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

7 ml of pre-diluted, Ready-To-Use, Do not dilute. Incubate for 10-30 minutes.

0.2 ml of concentrate; for 30-minute incubation, dilute 1:30 for paraffin sections, . The dilution factor for frozen section staining and other applications cited above are considerably higher and must be determined by the end user. For frozen sections. For Immunoblotting dilute 1:00 or higher.

THE SUGGESTED STARTING DILUTION FACTORS ARE MERE GUIDELINES ONLY. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN, STAINING PROTOCOL AND APPLICATION EMPLOYED.

*The above dilutions and incubation times were derived times by the use of Innovex STAT-Q and HISTO-STAT detection systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.*

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## **SPECIAL USAGE GUIDANCE**

No pre-treatment such as high heat antigen unmasking method is required for staining formalin fixed paraffin sections, the use of Innovex STAT-Q Staining system, product number NB314KLD and Innovex Signal-Enhancing Wash Buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps is employed. The use of Innovex Signal Enhancing Wash Buffer amplifies staining signal, eliminates the need for enzyme digestion pre treatment, heat application (retrieval procedure) and shortens the incubation time for the primaries antibodies without addition of any extra steps to immunostaining procedures. In the absence of Innovex staining system mentioned above, the user may employ high heat antigen unmasking methods.

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of VIP antigen in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunofluorescence labeling, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of VIP antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with human, rat, porcine, bovine, cat, monkey has been substantiated, other species reactivity may be characterized by the end user.

## **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through expiration date noted on the vial.

## **IMPORTANT NOTE:**

**The interpretation of test results is the sole responsibility of the end user.**

***FOR IN VITRO RESEARCH USE ONLY***