



## Monoclonal Antibody to **Villin**

### *Technical Data Sheet*

#### Reagent Category

Monoclonal antibody to villin

PRODUCT# IMI31961E (Ready-To-Use)

PRODUCT# IMI31952E (Concentrate)

#### Antibody Formats Supplied

7 ml of anti villin, Ready-To-Use

0.2 ml of anti villin, Concentrate

---

**IMMUNOGEN:** Purified chicken villin

**IMMUNOGLOBULIN ISOTYPE:** IgG

**CLONE:** CWWB1

**POSITIVE CONTROL TISSUE:** Intestine, kidney, HT29 cell lines

**STAINING PATTERN:** Membrane staining

#### **REACTIVITY**

This anti villin monoclonal antibody recognizes villin, a cytoskeletal filament protein of 58 kD found in human renal epithelial cells, and this antibody also reacts with villin from chicken and porcine species sources. This antibody is useful for studies of the differentiation of "brush border" epithelia of the intestine and kidney. It is also useful for the study of gastrointestinal cells in normal and tumor tissues. This antibody is often used in the study of cellular origin in human renal cell carcinoma. This antibody reacts with the human intestinal cell line HT29. This antibody is suitable for use on routinely fixed paraffin embedded (see special usage guidance of this data sheet) and frozen sections. This antibody is compatible with formalin fixative as well as most commonly used histological fixatives.

#### **Antibody FORMATS, DILUTIONS and INCUBATIONS**

This affinity purified monoclonal villin antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

**7 ml of pre-titered, Ready-To-Use; Do not dilute. Incubate for 30 minutes for paraffin sections.** Use of Innovex DAB Enhancer, product #NB308 or Innovex AEC Enhancer, product #319 is strongly recommended.

**0.2 ml Concentrate; dilute 1:30-1:50 and incubate for 30 minutes to 1 hour.** These incubation time and dilution factors are mere suggestions; the working dilution and incubation time must be determined by the end user for the method and process employed.

*The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT (2-step) 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.*

**CONTINUED OVER**



### **SPECIAL USAGE GUIDANCE**

Pre-treatments such as antigen unmasking by heat or enzyme digestion for paraffin embedded sections may be required for this antibody. For best staining results, the use of 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 in between the incubation steps is highly recommended. The use of Innovex Enhancing Wash Buffers greatly enhances staining signals for antigenically weak or for overfixed tissues. **Its use further eliminates the need for enzyme Pre-digestion, heat application (retrieval procedure), long incubation of primaries and repetitive procedures.**

### **APPLICATIONS**

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

### **APPROPRIATE NEGATIVE CONTROL SERA for staining negative control slide**

Employ purified normal mouse sera free of immunoglobulin, concentration at 1-5ug/ml in place of primary antibody when staining negative control slides for this antibody. Observe the same incubation time for negative control sera and primary antibody.

### **SPECIES REACTIVITY**

This antibody reactivity with tissues of human 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***