



## Monoclonal Antibody to **P-Glycoprotein**

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to P-Glycoprotein

PRODUCT# IMI28561E (Ready-To-Use)

PRODUCT# IMI28552E (Concentrate)

#### Specific Reagents Supplied

5 ml of anti P-Glycoprotein, Ready-To-Use

0.2 ml of anti P-Glycoprotein, Concentrate

**SOURCE:** Ascites fluid

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** C219

#### **REACTIVITY**

Monoclonal P-Glycoprotein (MDR ) antibody recognizes MDR1, the epitope localized at the amino terminal of the third extracellular loop of p-glycoprotein molecule. One of P-glycoprotein function is to transport chemotherapeutic agent out of cells and causes multi drug resistance to cancer cells expressing P-glycoprotein. P-glycoprotein is absent from most normal tissues, however, it is observed in the proximal tubule of kidney and the biliary ducts. This antibody is cross-reactive with mouse, Hamster and rat tissues. This antibody is suitable for use on routinely fixed paraffin embedded and for frozen sections. This antibody is compatible with formalin fixed tissues and with other commonly used histological fixatives.

**POSITIVE CONTROL TISSUE:** Kidney

#### **PRODUCT FORMATS, DILUTION and INCUBATION**

Monoclonal anti PCNA mouse ascites antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin and 0.05% sodium azide. This antibody is available in:

**5 ml of Ready-to-Use, Incubate for 30 minutes.** This antibody best stains when formalin fixed paraffin embedded tissue is retrieved, For best results the use of Uni-Trieve, the 60 –70 °C temperature retrieval technology is highly recommended (see the special usage guidance of this data sheet).

**0.2 ml Concentrate; For 30 min. incubation, dilute 1:50, for paraffin sections.** For longer incubation time the working titer must be determined by the end user. The dilution factor for frozen section staining and other applications are higher and must be determined by the end user for the application and the secondary staining reagents employed.

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#### **SPECIAL USAGE GUIDANCE**

Heat retrieval is highly recommended when staining formalin fixed paraffin embedded tissue sections. For best results, the use of Innovex Uni-Trieve, the 60-70°C temperature retrieval technology is highly recommended. Simply incubate slides in 60-70°C Innovex Uni-Trieve solution for 30 minutes prior to applying the primary antibody.

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## **APPLICATIONS**

This antibody is intended for use in immunolocalization of PCNA in human, primate, mouse, rat, bovine, rabbit, and dolphin by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining mouse in routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of PCNA. 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's reactivity with human, mouse and rat has been substantiated. Other species reactivity to be determined 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***