



## Monoclonal Antibody to Progesterone Receptor (PR)

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to  
Progesterone Receptor (PR)

#### Antibody Formats Supplied

- ☐ 5 ml of anti PR, Ready-To-Use
- ☐ 0.5 ml of anti PR, Concentrate

ITEM#: IMI28961E (Ready-To-Use)

ITEM#: IMI28952E (Concentrate)

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**SOURCE:** Purified Cultured Supernatant

**IMMUNOGEN:** Purified recombinant progesterone receptor peptides

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**Clone:** 10A9

#### **REACTIVITY**

Progesterone receptor belongs to the family of steroids hormone receptors that are involved in regulating growth of sex organ derived tumors. Progesterone receptor is regulated by estrogen hormone. The detection of progesterone receptor and level may be useful in evaluation of responsiveness to hormonal therapy in neoplastic conditions of breast.

This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections. This PR antibody is compatible with formalin fixative as well as most other commonly used histological fixatives (see special usage guidance of this data sheet).

**POSITIVE CONTROL TISSUE:** Breast Carcinoma

**STAINING PATTERN:** Nuclear

#### **Antibody FORMAT, DILUTIONS and INCUBATIONS**

Monoclonal anti PR antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.1% sodium azide.

- ☐ **5 ml of pre-diluted, Ready-to-Use, Do not dilute. Incubate for 30 minutes to 1 hour.**
- ☐ **0.5 ml Concentrate; For 30-minute incubation, dilute 1: 25; for 1-hour incubation dilute 1: 40; for longer incubation time the working titer should be determined by the end user.**

The above dilutions and incubation times were derived by the use of Innovex STAT-Q (3step) 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.

### **SPECIAL USAGE GUIDANCE**

The use of heat (retrieval procedure) OR the use of a Innovex-Enhancing Wash buffers (Item#: IMI00396E for Immuno-Peroxidase staining or Item#: IMI00596E for Immuno-Alkaline-phosphatase staining) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps is highly recommended.

The use of Innovex- Enhancing Wash Buffers greatly enhances staining signals for antigenically weak tissues or for over fixed tissues. **Its use further eliminates the need for enzyme Pre- digestion, heat application** (retrieval procedure), **long incubation of primaries and repetitive procedures.**

**If using heat to recover antigens, Tissue recovery solution (Innovex Product # NB304), is recommended for its pH remains unchanged by increase in temperature and as a result no damage to morphology occurs.**

### **APPLICATIONS**

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

### **SPECIES REACTIVITY**

This antibody reactivity with human has been substantiated; other species reactivity may be characterized by the end user.

### **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C if product will be used routinely. For long term storage, aliquot in small and practical volumes and freeze at 20-70°C. Avoid multiple freeze-thaw cycles which can greatly reduce antibody performance and stability.

### **IMPORTANT NOTE:**

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

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

### **REFEENCES**

Giri, D., et al. immunohistological demonstration of progesterone eceptor in breast carcinoma: Correlation with radioligand binding assays and oestrogen receptor immunohistology. 41:444-447, 1988.

### **FOR ADDITIONAL TECHNICAL SUPPORT:**



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