

## **Monoclonal** **Anti-human PR Isoform B/NR3C3 Antibody**

### **ORDERING INFORMATION**

**Catalog Number:** PP-H5344-00

**Clone:** H5344

**GenBank:** M15716

**Ig Class:** mouse IgG<sub>2A</sub>

**Volume:** 100 µL

**Concentration:** 1 mg/mL

**Formulation:** A liquid formulation in physiologic saline with 0.1% NaN<sub>3</sub>

**Storage:** ≤ -20 °C

**Specificity:** human PR isoform B

**Applications:** Western Blot  
Direct ELISA  
Immunohistochemistry  
Immunoprecipitation

### **Description**

Progesterone Receptor (PR; NR3C3) is a member of the Steroid Receptor superfamily. PR binds Progesterone. It is expressed in the uterus, ovary, vagina, fallopian tubes and breast. PR plays a central role in diverse reproductive events associated with the establishment and maintenance of pregnancy, alveolar development in the breast, and sexual behavior. Two isoforms of this receptor have been identified, PR-A and PR-B, 94 and 114 kDa in size, respectively. It has been shown that PR-A and PR-B isoforms can form homodimers as well as heterodimers.

### **Preparation**

Produced in BALB/c mouse ascites inoculated with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human PR isoform B (amino acids 2 - 99) and mouse myeloma cells (NS-1). The IgG fraction of ascites fluid was purified by ammonium sulfate fractionation.

### **Formulation**

A liquid formulation in physiologic saline with 0.1% NaN<sub>3</sub>.

### **Storage**

This antibody is stable for greater than six months when held at -20 °C in a **manual defrost freezer** or at -70 °C. Upon thawing, the antibody can be stored at 2-8 °C for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### **Specificity**

This antibody specifically reacts with human PR isoform B and cross-reacts with mouse and rat PR isoform B. It does not cross-react with human PR isoform A. Not yet tested in other species.

### **Applications**

**Western Blot** - This antibody can be used at 1 µg/mL under reducing conditions and at 3 µg/mL under non-reducing conditions with the appropriate secondary reagents to detect human PR Isoform B.

**Direct ELISA** - This antibody can be used at 0.3 µg/mL with the appropriate secondary reagents to detect human PR Isoform B.

**Immunohistochemistry** - This antibody can be used at 10 - 20 µg/mL with the appropriate secondary reagents to detect human PR Isoform B.

**Immunoprecipitation** - Optimal dilutions should be determined by each laboratory.

**Optimal dilutions should be determined by each laboratory for each application.**

**Note:** Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.



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