



Rabbit anti Progesterone Receptor (PR) Polyclonal Antibody

Alternative Name(s): Progesterone Receptor

Order Information

- **Description:** Progesterone Receptor (PR)
- **Catalogue:** 500-2074
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt, Bv

ANTIGEN PREPARATION

A synthetic peptide corresponding to C-terminus of human Progesterone receptor. This sequence is identical within human, mouse, rat, chicken, bovine and dog origins.

BACKGROUND

The progesterone receptor (PR) is a member of the steroid receptor superfamily. PR expression indicates a responsive estrogen receptor (ER) pathway, and therefore, may predict likely response to endocrine therapy in human breast cancer. In humans, the progesterone receptor (PR) gene gives rise to multiple isoforms. The "B" (PR-B, 116kDa, 933aa) contains a proline-rich N-term (aa 1 - 566), a central DNA-binding domain (DBD) (aa 567 - 636), a nuclear localization motif (aa 637 - 644), and a hormone binding/dimerization domain (HBD) (aa 645 - 933). PR-A (94 kDa, 769aa) utilizes a different start site that shortens the N-terminus by 164 amino acids. The N-terminus in both is rich in serine that is phosphorylated in response to hormone binding. In the absence of hormone, a few PR-A and -B molecules are phosphorylated at Serine 190 (S190). Hormone increases this number two-fold, providing evidence for hormone stimulation. The common Serine at 294 can only be phosphorylated on PR-B, due to a difference in N-terminal conformation. This may account for functional differences between the molecules. Alternate start sites also generate two shorter forms that lack the N-terminus: PR-C (60 kDa, 339 aa), PR-M (38 kDa, 314aa). PR-A, -B and -C are known to heterodimerize. Alternate splicing of PR-A generates at least four other isoforms. All contain aa 1 - 516 (with the N-terminus), and are either truncated or show a partial deletion of the HBD.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~116 kDa of human PR protein. It also cross-reacts to mice and rats. The other species are not tested

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 100.0

FOR RESEARCH USE ONLY.

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA
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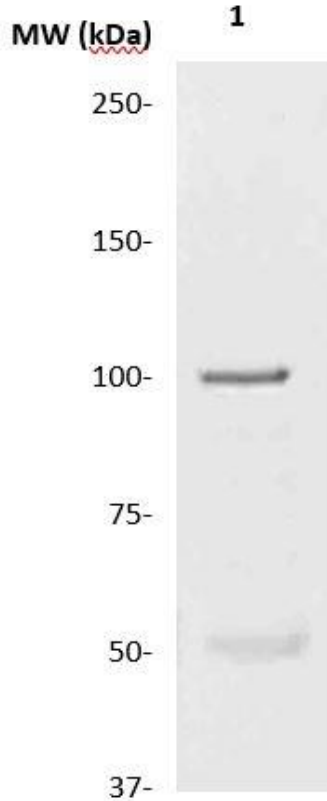
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

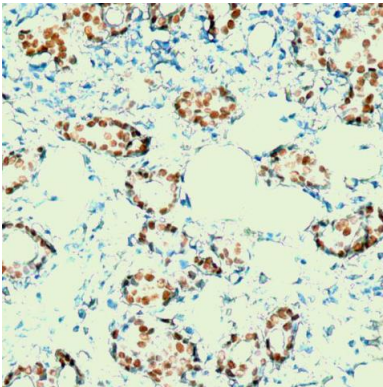
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DATA ATTACHMENTS



Western Blot: The whole lysate derived from PC3 (20 ug/lane) was immunoprobed by Rabbit anti-PR (Cat#500-2074) at 1:500. Observed a major immunoreactive band at molecular weight ~100 kDa.



Immunohistochemistry: Human breast cancer tissue stained with Rabbit Anti-PR antibody, (Cat# 500-2074) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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