

AbboMax, Inc

Innovation at Work

Rabbit anti Progesterone Receptor Antibody

ANTIGEN PREPARATION

A synthetic peptide corresponding to C-terminus of human Progesterone receptor.

Order Information

Description: Rabbit anti PR
Catalogue#: 500-2074
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu

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.

SPECIFICITY

This antibody recognizes ~116 kDa of human PR protein. The other species are not tested

FORMULATION

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

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C . Avoid repeated freezing-thawing cycles.

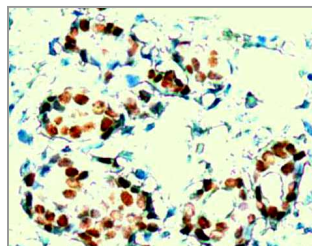
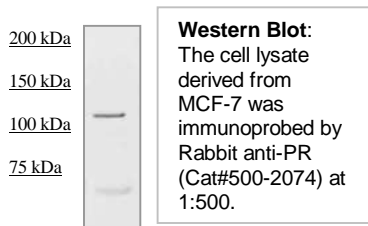
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 $\mu\text{g/ml}$
ELISA	0.01-0.1 $\mu\text{g/ml}$
Immunoprecipitation	2-5 $\mu\text{g/ml}$
IHC	1-2 $\mu\text{g/ml}$
Flow cytometry	Not tested

MOLECULAR WEIGHT:	116 kDa
POSITIVE CONTROL:	Breast Cancer Tissue or MCF-7 cell
CELLULAR LOCATION:	Nuclear

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

DATA ATTACHMENTS



Human breast cancer tissue stained with 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:

Zheng ZY, Lin VC. Anti-estrogenic effect of unliganded progesterone receptor is estrogen-selective in breast cancer cells MCF-7. Cancer Lett. 2008 May 12 (in press)

FOR RESEARCH USE ONLY.

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