Progesterone Receptor A/B Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

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**Product Usage Information**
Application: Western Blotting
Dilution: 1:1000

**Storage**
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**
Progesterone Receptor A/B Antibody detects endogenous levels of total progesterone receptor A and B proteins. This antibody does not cross-react with other PR family members.

**Source / Purification**
Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr541 of human progesterone receptor.

**Background**
Human progesterone receptor (PR) is expressed as two forms: the full length PR-B and the short form PR-A. PR-A lacks the first 164 amino acid residues of PR-B (1,2). Both PR-A and PR-B are ligand activated, but differ in their relative ability to activate target gene transcription (3,4). The activity of PR is regulated by phosphorylation; at least seven serine residues are phosphorylated in its amino-terminal domain. Three sites (Ser81, Ser102, and Ser162) are unique to full length PR-B, while other sites (Ser190, Ser294, Ser345, and Ser400) are shared by both isoforms (5). Phosphorylation of PR-B at Ser190 (equivalent to Ser26 of PR-A) is catalyzed by CDK2 (6). Mutation of Ser190 results in decreased activity of PR (7), suggesting that the phosphorylation at Ser190 may be critical to its biological function.

**Background References**

**Species Reactivity**
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**
IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**
WB: Western Blotting

**Cross-Reactivity Key**

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