

#3176 Store at -20°C

Progesterone Receptor A/B Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	90 (PR-A), 118 (PR-B)	Rabbit	#P06401	5241

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	<ol style="list-style-type: none"> 1. Evans, R.M. (1988) <i>Science</i> 240, 889-895. 2. Kastner, P. et al. (1990) <i>EMBO J.</i> 112, 1603-1614. 3. Giangrande, P.H. et al. (2000) <i>Mol. Cell. Biol.</i> 20, 3102-3115. 4. Wen, D.X. et al. (1994) <i>Mol. Cell. Biol.</i> 14, 8356-8364. 5. Clemm, D.L. et al. (2000) <i>Mol. Endocrinol.</i> 14, 52-65. 6. Zhang, Y. et al. (1997) <i>Mol. Endocrinol.</i> 11, 823-832. 7. Takimoto, G.S. et al. (1996) <i>J. Biol. Chem.</i> 271, 13308-13316. 	

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	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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