

#3171 Store at -20°C

Phospho-Progesterone Receptor (Ser190) Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

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

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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	Phospho-Progesterone Receptor (Ser190) Antibody detects endogenous levels of both progesterone receptor B and A forms only when phosphorylated at serine 190 and serine 26, respectively. This antibody does not cross-react with other PR family members.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser190 of human progesterone receptor. Antibodies are purified by protein A and peptide affinity chromatography.	
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	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 IP: Immunoprecipitation
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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