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Progesterone Receptor A/B (D8Q2J) XP[®] Rabbit mAb (PE Conjugate)

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

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P06401	Entrez-Gene Id: 5241
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity/Sensitivity	Progesterone Receptor A/B (D8Q2J) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total progesterone receptor A and B proteins. This antibody does not cross-react with either the glucocorticoid receptor or the mineralocorticoid receptor.	
Species predicted to react based on 100% sequence homology	Monkey	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr541 of human progesterone receptor protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Progesterone Receptor A/B (D8Q2J) XP [®] Rabbit mAb #8757.	
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).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human
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