Progesterone Receptor A/B (D8Q2J) XP® Rabbit mAb



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

Applications: WB. IP. IHC-P. IF-IC.	Reactivity:	Sensitivity: Endogenous	MW (kDa): 90 (PR-A), 118	Source/Isotype: Rabbit IgG	UniProt ID: #P06401	Entrez-Gene Id: 5241
FC-FP, ChIP, ChIP-seq,	"	Lildogerious	(PR-B)	rabbit igo	#F00401	3241
C&R						

Product Usage Information

For optimal ChIP and ChIP-seq results, use 5 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Immunohistochemistry (Paraffin)	1:500 - 1:2000
Immunofluorescence (Immunocytochemistry)	1:800 - 1:1600
Flow Cytometry (Fixed/Permeabilized)	1:400 - 1:1600
Chromatin IP	1:100
Chromatin IP-seq	1:100
CUT&RUN	1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #18444.

Specificity / Sensitivity

Progesterone Receptor A/B (D8Q2J) XP® Rabbit mAb 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.

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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) Science 240, 889-895.
- 2. Kastner, P. et al. (1990) EMBO J. 112, 1603-1614.
- 3. Giangrande, P.H. et al. (2000) Mol. Cell. Biol. 20, 3102-3115.
- 4. Wen, D.X. et al. (1994) Mol. Cell. Biol. 14, 8356-8364.
- 5. Clemm, D.L. et al. (2000) Mol. Endocrinol. 14, 52-65.
- 6. Zhang, Y. et al. (1997) Mol. Endocrinol. 11, 823-832.
- 7. Takimoto, G.S. et al. (1996) J. Biol. Chem. 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN

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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