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Glucocorticoid Receptor (D8H2) XP® Rabbit mAb (PE Conjugate)


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| Applications: FC-FP | Reactivity: H M R Mk | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #P04150 | Entrez-Gene Id: 2908 |
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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 antibody. Protect from light. Do not freeze. | |
| Specificity / Sensitivity | Glucocorticoid Receptor (D8H2) XP® Rabbit mAb (PE Conjugate) recognizes endogenous levels of total glucocorticoid receptor protein. Based upon sequence alignment, this antibody is predicted to cross-react with all known alternative translation start site generated isoforms of glucocorticoid receptor-α and glucocorticoid receptor-β. This antibody does not cross-react with mineralocorticoid receptor. | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu378 of human glucocorticoid receptor protein. | |
| Product Description | This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Glucocorticoid Receptor (D8H2) XP® Rabbit mAb #3660. | |
| Background | <p>Glucocorticoid hormones control cellular proliferation, inflammation, and metabolism through their association with the glucocorticoid receptor (GR)/NR3C1, a member of the nuclear hormone receptor superfamily of transcription factors (1). GR is composed of several conserved structural elements, including a carboxy-terminal ligand-binding domain (which also contains residues critical for receptor dimerization and hormone-dependent gene transactivation), a neighboring hinge region containing nuclear localization signals, a central zinc-finger-containing DNA-binding domain, and an amino-terminal variable region that participates in ligand-independent gene transcription. In the absence of hormone, a significant population of GR is localized to the cytoplasm in an inactive form via its association with regulatory chaperone proteins, such as HSP90, HSP70, and FKBP52. On hormone binding, GR is released from the chaperone complex and translocates to the nucleus as a dimer to associate with specific DNA sequences termed glucocorticoid response elements (GREs), thereby enhancing or repressing transcription of specific target genes (2). It was demonstrated that GR-mediated transcriptional activation is modulated by phosphorylation (3-5). Although GR can be basally phosphorylated in the absence of hormone, it becomes hyperphosphorylated upon binding receptor agonists. It has been suggested that hormone-dependent phosphorylation of GR may determine target promoter specificity, cofactor interaction, strength and duration of receptor signaling, receptor stability, and receptor subcellular localization (3).</p> | |
| Background References | <ol style="list-style-type: none"> 1. Yamamoto, K.R. (1985) <i>Annu. Rev. Genet.</i> 19, 209-52. 2. Necela, B.M. and Cidlowski, J.A. (2003) <i>Trends Pharmacol. Sci.</i> 24, 58-61. 3. Wang, Z. et al. (2002) <i>J. Biol. Chem.</i> 277, 26573-80. 4. Rogatsky, I. et al. (1998) <i>J. Biol. Chem.</i> 273, 14315-21. 5. Krstic, M. D. et al. (1997) <i>Mol. Cell. Biol.</i> 17, 3947-54. | |

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| 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 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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