Glucocorticoid Receptor (D8H2) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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

Applications: IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P04150	Entrez-Gene Id: 2908
Product Usage Information		Application Immunofluorescence (II Flow Cytometry (Fixed/F	-		Dilution 1:400 - 1:800 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 (Alexa Fluor [®] 488 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.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Glucocorticoid Receptor (D8H2) XP [®] Rabbit mAb #3660.			
Background		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 aminoterminal 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).			
Background Refer	ences	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.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

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

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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