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Glucocorticoid Receptor (D6H2L) XP[®] Rabbit mAb



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

Applications: W, IP, IHC-P, IF-IC, FC-FP, ChIP, ChIP- seq, C&R	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 94, 91	Source/Isotype: Rabbit IgG	UniProt ID: #P04150	Entrez-Gene Id: 2908
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ 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			Dilut	ion
		Western Blotting			1:100	
		Immunoprecipitation			1:100	
		Immunohistochemist Immunofluorescence		ictal) - 1:800
		Flow Cytometry (Fixed	-	iisti y)) - 1:1600 - 1:200
		Chromatin IP	an enneablized)		1:50	1.200
		Chromatin IP-seq			1:50	
		CUT&RUN			1:50	
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) ver	sion of this product see	product #42394.	
Specificity/Sens	itivity	Glucocorticoid Receptor (D6H2L) XP [®] Rabbit mAb recognizes endogenous levels of total GR protein. This antibody reacts with GR-α and GR-β but does not cross-react with mineralocorticoid receptor.				
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of human GR protein.				
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 Ref	ferences	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 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	W: 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 Mk: Monkey
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