RXRα (D6H10) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

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Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, ChIP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 53	Source/Isotype: Rabbit IgG	UniProt ID: #P19793	Entrez-Gene Id: 6256
Product Usage Information		For optimal ChIP 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.				
		Application		Dilution		
		Western Blotting			1:1000	
		Immunoprecipitation			1:100	
		Chromatin IP			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.				
Specificity/Sensitivity		RXR α (D6H10) Rabbit mAb recognizes endogenous levels of total RXR α protein. This antibody does not cross-react with either RXR β or RXR γ .				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RXR $lpha$ protein.				
Background		The human retinoid X receptors (RXRs) are encoded by three distinct genes ($RXR\alpha$, $RXR\beta$, and $RXR\gamma$) and bind selectively and with high affinity to the vitamin A derivative, 9-cis-retinoic acid. RXRs are type-II nuclear hormone receptors that are largely localized to the nuclear compartment independent of ligand binding. Nuclear RXRs form heterodimers with nuclear hormone receptor subfamily 1 proteins, including thyroid hormone receptor, retinoic acid receptors, vitamin D receptor, peroxisome proliferator-activated receptors, liver X receptors, and farnesoid X receptor (1). Since RXRs heterodimerize with multiple nuclear hormone receptors, they play a central role in transcriptional control of numerous hormonal signaling pathways by binding to cis-acting response elements in the promoter/enhancer region of target genes (2). Retinoid X receptor α (RXR α) is the founding RXR family member and is predominantly expressed in the liver, kidney, epidermis, intestine, and a variety of tissues (2-4). Knockout of the murine rxr α gene results in embryonic lethality tentatively due to myocardial hypoplasia, which demonstrates the importance of RXR α in retinoid signaling in vivo (5,6). Biochemical evidence suggests that RXR α transcriptional activity is post-translationally regulated through the Ras-Raf-MAPK signaling cascade. MAPK-dependent phosphorylation of RXR α directly abrogates the ability of RXR α to associate with nuclear receptor coactivators (7).				
Background Re	eferences	1. Gronemeyer, H. et al. (2004) <i>Nat Rev Drug Discov</i> 3, 950-64. 2. Mangelsdorf, D.J. et al. (1992) <i>Genes Dev</i> 6, 329-44. 3. Mangelsdorf, D.J. et al. (1990) <i>Nature</i> 345, 224-9. 4. Dollé, P. et al. (1994) <i>Mech Dev</i> 45, 91-104. 5. Kastner, P. et al. (1994) <i>Cell</i> 78, 987-1003. 6. Sucov, H.M. et al. (1994) <i>Genes Dev</i> 8, 1007-18. 7. Macoritto, M. et al. (2008) <i>J Biol Chem</i> 283, 4943-56.				
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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

W: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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