

RXRα Antibody



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Applications: W, IP	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 53	Source/Isotype: Rabbit	UniProt ID: #P19793	Entrez-Gene Id: 6256
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		RXR α Antibody recognizes endogenous levels of total RXR α protein. RXR α Antibody does not cross-react with either RXR β or RXR γ .				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RXRα protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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 liver, kidney, epidermis, intestine and a variety of tissues (2-4). Knockout of the murine $rxr\alpha$ gene results in embryonic lethality tentatively due to myocardial hypoplasia, which demonstrates the importance of RXR α to 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 References		 Gronemeyer, H. et al. (2004) Nat Rev Drug Discov 3, 950-64. Mangelsdorf, D.J. et al. (1992) Genes Dev 6, 329-44. Mangelsdorf, D.J. et al. (1990) Nature 345, 224-9. Dollé, P. et al. (1994) Mech Dev 45, 91-104. Kastner, P. et al. (1994) Cell 78, 987-1003. Sucov, H.M. et al. (1994) Genes Dev 8, 1007-18. Macoritto, M. et al. (2008) J Biol Chem 283, 4943-56. 				
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **R:** Rat **Mk:** Monkey

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