

#5629 Store at -20C

RXRy Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M	Endogenous	55	Rabbit	#P48443	6258

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	RXRy Antibody recognizes endogenous levels of total RXRy protein. This antibody does not cross-react with either RXRα or RXRβ.	
Species predicted to react based on 100% sequence homology:	Rat, Monkey, Bovine, Dog	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RXRy protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The human retinoid X receptors (RXRs) are encoded by three distinct genes (<i>RXRα</i> , <i>RXRβ</i> , and <i>RXRγ</i>) and bind selectively and with high affinity to the vitamin A derivative, 9- <i>cis</i> -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 <i>cis</i> -acting response elements in the promoter/enhancer region of target genes (2). RXRy expression, unlike that of RXRα and RXRβ, is restricted largely to cardiac muscle, skeletal muscle, thyroid gland, and thyrotrope cells of the anterior pituitary gland (3-6). It is posited that RXRy plays a pivotal role in the transcriptional control of skeletal muscle differentiation as RXRy has been found to be directly associated with the promoter regions of <i>MyoD</i> and <i>myogenin</i> (7-10). RXRy is also involved in the transcriptional control of the hypothalamic-pituitary-thyroid axis through repression of the <i>TSHβ</i> promoter (11-13).	
Background References	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. Krezel, W. et al. (1996) <i>Proc Natl Acad Sci USA</i> 93, 9010-4. 4. Dollé, P. et al. (1994) <i>Mech Dev</i> 45, 91-104. 5. Sugawara, A. et al. (1995) <i>Endocrinology</i> 136, 1766-74. 6. Liu, Q. and Linney, E. (1993) <i>Mol Endocrinol</i> 7, 651-8. 7. Georgiades, P. and Brickell, P.M. (1997) <i>Dev Dyn</i> 210, 227-35. 8. Downes, M. et al. (1994) <i>Endocrinology</i> 134, 2658-61. 9. Muscat, G.E. et al. (1994) <i>Nucleic Acids Res</i> 22, 583-91. 10. Downes, M. et al. (1993) <i>Cell Growth Differ</i> 4, 901-9. 11. Haugen, B.R. et al. (1997) <i>Mol Endocrinol</i> 11, 481-9. 12. Brown, N.S. et al. (2000) <i>J Clin Invest</i> 106, 73-9. 13. Sharma, V. et al. (2006) <i>Endocrinology</i> 147, 1438-51.	

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

WB: Western Blotting **IP:** Immunoprecipitation

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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