

RXR γ Antibody

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

Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit	UniProt ID: #P48443	Entrez-Gene Id: 6258
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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 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

RXR γ Antibody recognizes endogenous levels of total RXR γ protein. This antibody does not cross-react with either RXR α or RXR β .

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 RXR γ 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 α* , *RXR β* , and *RXR γ*) 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). RXR γ expression, unlike that of RXR α and RXR β , is restricted largely to cardiac muscle, skeletal muscle, thyroid gland, and thyrotrope cells of the anterior pituitary gland (3-6). It is posited that RXR γ plays a pivotal role in the transcriptional control of skeletal muscle differentiation as RXR γ has been found to be directly associated with the promoter regions of *MyoD* and *myogenin* (7-10). RXR γ is also involved in the transcriptional control of the hypothalamic-pituitary-thyroid axis through repression of the *TSH β* promoter (11-13).

Background References

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6. Liu, Q. and Linney, E. (1993) *Mol Endocrinol* 7, 651-8.
7. Georgiades, P. and Brickell, P.M. (1997) *Dev Dyn* 210, 227-35.
8. Downes, M. et al. (1994) *Endocrinology* 134, 2658-61.
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11. Haugen, B.R. et al. (1997) *Mol Endocrinol* 11, 481-9.
12. Brown, N.S. et al. (2000) *J Clin Invest* 106, 73-9.
13. Sharma, V. et al. (2006) *Endocrinology* 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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse

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