

RXR α / β / γ (C-20): sc-831

BACKGROUND

Retinoids are metabolites of vitamin A (retinol) and are believed to represent important signaling molecules during vertebrate development and tissue differentiation. Two families of retinoid receptors have been identified. Retinoic acid receptors (RARs), include RAR α , RAR β and RAR γ , each of which have a high affinity for all transretinoic acids and belong to the same class of nuclear transcription factors as thyroid hormone receptors, vitamin D₃ receptor and ecdysone receptor. The ligand binding domains of the RARs are highly conserved and RAR isoforms are expressed in distinct patterns throughout development and in the mature organism. Members of the retinoid X receptor (RXR) family, RXR α , RXR β and RXR γ , are activated by 9-*cis*-RA, a stereo- and photoisomer of all-*trans*-RA, that is expressed *in vivo* in both liver and kidney and may represent a widely used hormone. As is true for the RAR subfamily, the RXR receptors are closely related to each other both in their DNA-binding and ligand-binding domains and are encoded by separate genes at distinct chromosomal loci.

SOURCE

RXR α / β / γ (C-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of RXR β of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-831 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-831 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RXR α / β / γ (C-20) is recommended for detection of RXR α , RXR β and RXR γ of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RXR α / β / γ (C-20) is also recommended for detection of RXR α , RXR β and RXR γ in additional species, including equine, canine, bovine, porcine and avian.

RXR α / β / γ (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RXR α / β / γ : 50-54 kDa.

Positive Controls: RXR α (h): 293T Lysate: sc-111936, K-562 nuclear extract: sc-2130 or Hep G2 cell lysate: sc-2227.

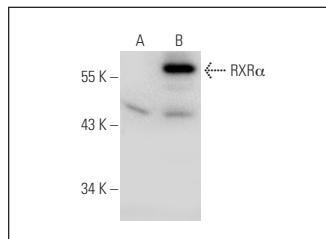
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

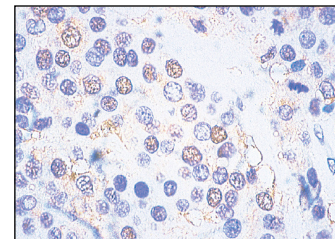
RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



RXR α / β / γ (C-20): sc-831. Western blot analysis of RXR α expression in non-transfected: sc-117752 (A) and human RXR α transfected: sc-111936 (B) 293T whole cell lysates.



RXR α / β / γ (C-20): sc-831. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human liver tumor showing nuclear localization.

SELECT PRODUCT CITATIONS

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- Goumy, C., et al. 2010. Fetal skin fibroblasts: a cell model for studying the retinoid pathway in congenital diaphragmatic hernia. *Birth Defects Res. Part A Clin. Mol. Teratol.* 88: 195-200.
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- Marsh, D.R. and Flemming, J.M. 2011. Inhibition of CXCR1 and CXCR2 chemokine receptors attenuates acute inflammation, preserves gray matter and diminishes autonomic dysreflexia after spinal cord injury. *Spinal Cord.* 49: 337-344.
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MONOS
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Try **RXR γ (A-2): sc-365252** or **RXR γ (G-6): sc-514134**, our highly recommended monoclonal alternatives to RXR α / β / γ (C-20).