**BACKGROUND**

Two families of retinoid receptors, RARs and RXRs, have been identified. Retinoic acid receptors (RARs) include RARα, RARβ, and RARγ, each of which have a high affinity for all trans-retinoic acids and belong to the same class of nuclear transcription factors as thyroid hormone receptors, vitamin D 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, RXRα, RXRβ, and RXRγ, are activated by 9-cis-RA, a stereore- and photo-isomer 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.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-46659 X, 200 µg/0.1 ml.

RXRα/β/γ (F-1) is available conjugated to agarose (sc-46659 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-46659 HRP), 200 µg/ml, for WB, IHC(FL) and ELISA; to either phycoerythrin (sc-46659 PE), fluorescein (sc-46659 FITC), Alexa Fluor® 488, Alexa Fluor® 546 (sc-46659 AF546), Alexa Fluor® 594 (sc-46659 AF594) or Alexa Fluor® 647 (sc-46659 AF647), 200 µg/ml, for WB (RGB), IF, IHC(FL) and FC; and to either Alexa Fluor® 680 (sc-46659 AF680) or Alexa Fluor® 790 (sc-46659 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

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**APPLICATIONS**

RXRα/β/γ (F-1) is recommended for detection of RXRα, RXRβ and RXRγ of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RXRα/β/γ (F-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RXRα/β/γ 50-54 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, HeLa whole cell lysate: sc-2200 or RXRα (h): 293T Lysate: sc-111936.

**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**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.