RORγ (27.92): sc-293150

BACKGROUND
The nuclear orphan receptors RORα and RORγ are members of the nuclear hormone receptor superfamily. This family acts by directly associating with DNA sequences known as hormone response elements (HREs) and typically bind DNA as either homo- or heterodimers. RORα and RORγ are unique in that they bind DNA as monomers. RORα has multiple isoforms that share common DNA and putative ligand-binding domains, but differ in their amino terminal domains, which are generated by alternative RNA processing. RORγ comprises a 560 amino acid protein that shares 50% amino acid identity with RORα and is most highly expressed in skeletal muscle. Although these proteins are considered “orphan receptors”, due to a lack of defined ligands, experimental evidence has shown that melatonin may be the natural ligand for these nuclear receptors. The gene encoding RORα maps to chromosome 15q22.2 and the gene encoding RORγ maps to chromosome 1q21.3.

CHROMOSOMAL LOCATION
Genetic locus: RORC (human) mapping to 1q21.3; Rorc (mouse) mapping to 3 F2.1.

SOURCE
RORγ (27.92) is a mouse monoclonal antibody raised against recombinant RORγ of human origin.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain 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-293150 X, 200 µg/0.1 ml.

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

APPLICATIONS
RORγ (27.92) is recommended for detection of isoform RORγ (also designated isoform 2) of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RORγ siRNA (h): sc-38880, RORγ siRNA (m): sc-38881, RORγ shRNA Plasmid (h): sc-38880-SH, RORγ shRNA Plasmid (m): sc-38881-SH, RORγ shRNA (h) Lentiviral Particles: sc-38880-V and RORγ shRNA (m) Lentiviral Particles: sc-38881-V.

RORγ (27.92) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RORγ: 63 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, CCRF-CEM cell lysate: sc-2225 or Hep G2 cell lysate: sc-2227.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG1 BP-HRP: sc-516102 or m-IgG1 BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

SELECT PRODUCT CITATIONS

RESEARCH USE
For research use only, not for use in diagnostic procedures. Not for resale.

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