

# PRC (H-164): sc-292122

## BACKGROUND

PGC-1-related coactivator (PRC), also known as peroxisome proliferator-activated receptor  $\gamma$  coactivator-related protein 1, is a 1,664 amino acid nuclear protein. PRC is involved in the coactivation of nuclear genes involved in mitochondrial biogenesis and cell growth. PRC acts as a transcriptional coactivator of CREB-1 and NRF-1 by interacting directly with CREB-1 and NRF-1 genes. Up-regulated by serum, PRC is present at high levels in skeletal muscle and heart and at moderate levels in kidney, spleen, thymus, intestine, placenta, lung, brain and colon. PRC has one RNA recognition motif (RRM) domain, which can bind directly to RNA. PRC exists as two named isoforms produced by alternative splicing.

## CHROMOSOMAL LOCATION

Genetic locus: PPRC1 (human) mapping to 10q24.32; Pprc1 (mouse) mapping to 19 C3.

## SOURCE

PRC (H-164) is a rabbit polyclonal antibody raised against amino acids 63-226 mapping near the N-terminus of PRC of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292122 X, 200  $\mu$ g/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

PRC (H-164) is recommended for detection of PRC of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

PRC (H-164) is also recommended for detection of PRC in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for PRC siRNA (h): sc-90572, PRC siRNA (m): sc-152443, PRC shRNA Plasmid (h): sc-90572-SH, PRC shRNA Plasmid (m): sc-152443-SH, PRC shRNA (h) Lentiviral Particles: sc-90572-V and PRC shRNA (m) Lentiviral Particles: sc-152443-V.

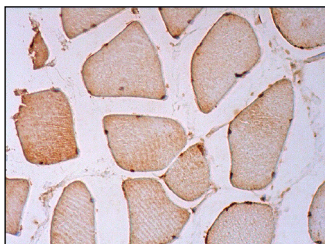
PRC (H-164) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PRC: 177 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



PRC (H-164): sc-292122. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skeletal muscle tissue showing nuclear and cytoplasmic staining of myocytes.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **PRC (B-8): sc-376431**, our highly recommended monoclonal alternative to PRC (H-164).