BACKGROUND

The interleukins (ILs) are a broad family of well-characterized cytokines, primarily of hematopoietic cell origin, and are secreted by immune cells (mainly macrophages, B-cells or T-cells) that regulate a wide range of immune system functions. The specific functions of different interleukins vary from the regulation of inflammatory and immune responses to the regulation of other interleukins. They exert their biological effects through the binding of membrane-bound receptors which, in turn, initiate signal transduction cascades and elicit physiological changes in their target cell. IL-17RC (interleukin 17 receptor C) is a 791 amino acid single-pass type I transmembrane protein that may function as a receptor for IL-17. Existing as multiple alternatively spliced isoforms, IL-17RC is expressed in heart, brain, intestine, liver, kidney, lung, muscle, placenta and prostate and is encoded by a gene which maps to human chromosome 3.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: IL17RC (human) mapping to 3p25.3; Il17rc (mouse) mapping to 6 E3.

SOURCE

IL-17RC (H-76) is a rabbit polyclonal antibody raised against amino acids 188-263 mapping within an internal region of IL-17RC of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IL-17RC (H-76) is recommended for detection of IL-17RC 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

IL-17RC (H-76) is also recommended for detection of IL-17RC in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for IL-17RC siRNA (h): sc-78333, IL-17RC siRNA (m): sc-146205, IL-17RC shRNA Plasmid (h): sc-78333-SH, IL-17RC shRNA Plasmid (m): sc-146205-SH, IL-17RC shRNA (h) Lentiviral Particles: sc-78333-V and IL-17RC shRNA (m) Lentiviral Particles: sc-146205-V.

Molecular Weight of IL-17RC: 86 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.

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.

PROTOCOLS

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