

## IL-17RC (P-14): sc-99937

### 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

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- Kuestner, R.E., et al. 2007. Identification of the IL-17 receptor related molecule IL-17RC as the receptor for IL-17F. *J. Immunol.* 179: 5462-5473.
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- Zrioual, S., et al. 2008. IL-17RA and IL-17RC receptors are essential for IL-17A-induced ELR<sup>+</sup> CXC chemokine expression in synovial cells and are over-expressed in rheumatoid blood. *J. Immunol.* 180: 655-663.
- Wright, J.F., et al. 2008. The human IL-17F/IL-17A heterodimeric cytokine signals through the IL-17RA/IL-17RC receptor complex. *J. Immunol.* 181: 2799-2805.

### CHROMOSOMAL LOCATION

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

### SOURCE

IL-17RC (P-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of IL-17RC of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99937 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

IL-17RC (P-14) 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), 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); non cross-reactive with other IL family members.

IL-17RC (P-14) is also recommended for detection of IL-17RC in additional species, including equine 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) 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<sup>™</sup> 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](http://www.scbt.com) or our catalog for detailed protocols and support products.