

# IL-17RB (97C691): sc-52925

## BACKGROUND

Cytokines are small, soluble proteins with pleiotropic effects on a variety of cell types. Cytokines have a regulatory function over the immune system and mediate aspects of inflammatory response. 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-17RB is a member of the cytokine receptor family and acts as a receptor for the proinflammatory cytokines IL-17B and IL-17E. It may play a role in hematopoietic cell differentiation and growth. IL-17RB expression is high in liver, colon, brain, kidney and testis. IL-17RB is detected in fibroblast-like synoviocytes of rheumatoid arthritis patients.

## REFERENCES

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2. Okamura, H., et al. 1995. Cloning of a new cytokine that induces IFN- $\gamma$  production by T cells. *Nature* 378: 88-91.
3. Cohen, M.C. and Cohen, S. 1996. Cytokine function: a study in biologic diversity. *Am. J. Clin. Pathol.* 105: 589-598.
4. Ihle, J.N. 1996. Janus kinases in cytokine signalling. *Philos. Trans. R. Soc. Lond., B, Biol. Sci.* 351: 159-166.
5. Tian, E., et al. 2000. EVI27 encodes a novel membrane protein with homology to the IL-17 receptor. *Oncogene* 19: 2098-2109.
6. Hwang, S.Y., et al. 2004. IL-17 induces production of IL-6 and IL-8 in rheumatoid arthritis synovial fibroblasts via NF $\kappa$ B- and PI 3-kinase/Akt-dependent pathways. *Arthritis Res. Ther.* 6: 120-128.

## CHROMOSOMAL LOCATION

Genetic locus: IL17RB (human) mapping to 3p21.1; Il17rb (mouse) mapping to 14 B.

## SOURCE

IL-17RB (97C691) is a mouse monoclonal antibody raised against recombinant IL-17RB of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4 $^{\circ}$  C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

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

## APPLICATIONS

IL-17RB (97C691) is recommended for detection of IL-17RB of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for IL-17RB siRNA (h): sc-39964, IL-17RB shRNA Plasmid (h): sc-39964-SH and IL-17RB shRNA (h) Lentiviral Particles: sc-39964-V.

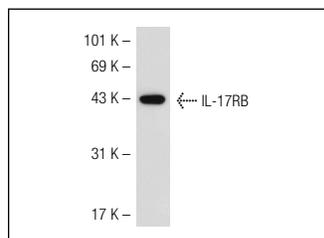
Molecular Weight of IL-17RB: 56 kDa.

Positive Controls: MEG-01 cell lysate: sc-2283.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker<sup>™</sup> compatible goat anti-mouse IgG-HRP: sc-2031 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



IL-17RB (97C691): sc-52925. Western blot analysis of IL-17RB expression in MEG-01 whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Lavorgna, A., et al. 2014. A critical role for IL-17RB signaling in HTLV-1 tax-induced NF- $\kappa$ B activation and T-cell transformation. *PLoS Pathog.* 10: e1004418.

## RESEARCH USE

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