SANTA CRUZ BIOTECHNOLOGY, INC.

IL-17RB (H-40): sc-366045

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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

1. Arend, W.P., et al. 1994. Binding of IL-1 α, IL-1 β, and IL-1 receptor antagonist by soluble IL-1 receptors and levels of soluble IL-1 receptors in synovial fluids. J. Immunol. 153: 4766-4774.
2. Okamura, H., et al. 1995. Cloning of a new cytokine that induces IFN- production by T cells. Nature 378: 88-91.

CHROMOSOMAL LOCATION

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

SOURCE

IL-17RB (H-40) is a rabbit polyclonal antibody raised against amino acids 330-369 mapping within an internal region of IL-17RB 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-17RB (H-40) is recommended for detection of IL-17RB 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-17RB (H-40) is also recommended for detection of IL-17RB in additional species, including equine, canine and porcine.

Suitable for use as control antibody for IL-17RB siRNA (h): sc-39964, IL-17RB siRNA (m): sc-39965, IL-17RB shRNA Plasmid (h): sc-39964-SH, IL-17RB shRNA Plasmid (m): sc-39965-SH, IL-17RB shRNA (h) Lentiviral Particles: sc-39964-V and IL-17RB shRNA (m) Lentiviral Particles: sc-39965-V.

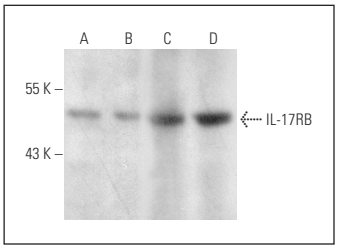
Molecular Weight of IL-17RB: 56 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or NIH/3T3 whole cell lysate: sc-2210.

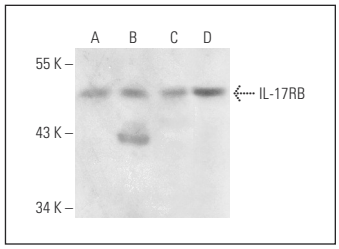
RECOMMENDED SECONDARY REAGENTS

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.

DATA



IL-17RB (H-40): sc-366045. Western blot analysis of IL-17RB expression in Jurkat (**A**) and RAW 264.7 (**B**) whole cell lysates and rat liver (**C**) and mouse brain (**D**) tissue extracts.



IL-17RB (H-40): sc-366045. Western blot analysis of IL-17RB expression in MEG-01 (**A**), NIH/3T3 (**B**) and HeLa (**C**) whole cell lysates and human liver tissue extract (**D**).

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.