**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. Interleukin-17 (IL-17) and its cognate receptor, IL-17R, are an example of such a cytokine receptor pair. Originally identified as a rodent cDNA termed CTLA8, IL-17 is capable of inducing the secretion of IL-6 and IL-8 and augmenting the expression of ICAM-1 in human fibroblast cultures. The IL-17 protein exhibits a striking degree of homology with the HSV13 protein which mimics its function. The IL-17 receptor is a type I transmembrane protein 864 amino acids in length, that is highly expressed in spleen and kidney.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: IL17RA (human) mapping to 22q11.1; IL17ra (mouse) mapping to 6 F1.

**SOURCE**

IL-17R (F-12) is a mouse monoclonal antibody raised against amino acids 33-200 mapping within an N-terminal extracellular domain of IL-17R of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

IL-17R (F-12) is recommended for detection of IL-17R of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for IL-17R siRNA (h): sc-40037, IL-17R siRNA (m): sc-40038, IL-17R shRNA Plasmid (h): sc-40037-SH, IL-17R shRNA Plasmid (m): sc-40038-SH, IL-17R shRNA (h) Lentiviral Particles: sc-40037-V and IL-17R shRNA (m) Lentiviral Particles: sc-40038-V.

Molecular Weight of IL-17R: 120 kDa.

Positive Controls: IL-17R (m2): 293T Lysate: sc-178795 or MOLT-4 cell lysate: sc-2233.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

**PROTOCOLS**

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