# IL-17 (TC11-18H10): sc-52567



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. 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**

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# CHROMOSOMAL LOCATION

Genetic locus: II17a (mouse) mapping to 1 A4.

# SOURCE

IL-17 (TC11-18H10) is a rat monoclonal antibody raised against full length IL-17 of mouse origin.

## **PRODUCT**

Each vial contains 100  $\mu g \; lg G_1$  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.

## **RESEARCH USE**

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

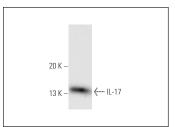
#### **APPLICATIONS**

IL-17 (TC11-18H10) is recommended for detection of IL-17 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IL-17 siRNA (m): sc-39650, IL-17 shRNA Plasmid (m): sc-39650-SH and IL-17 shRNA (m) Lentiviral Particles: sc-39650-V.

Molecular Weight of IL-17: 15 kDa.

### **DATA**



IL-17 (TC11-18H10): sc-52567. Western blot analysis

### **SELECT PRODUCT CITATIONS**

- 1. Rossi, F., et al. 2012. The cannabinoid receptor type 2 Q63R variant increases the risk of celiac disease: implication for a novel molecular biomarker and future therapeutic intervention. Pharmacol. Res. 66: 88-94.
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See **IL-17 (G-4): sc-374218** for IL-17 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor<sup>®</sup> 488, 546, 594, 647, 680 and 790.