

## IL-17E (68C1039): sc-52933

### BACKGROUND

The proinflammatory cytokine Interleukin 17 (IL-17) is produced by activated T cells to elicit potent cellular responses. IL-17 is secreted as a disulfide-linked homodimeric glycoprotein. A human IL-17 homolog IL-17E is a ligand for EV127/IL-17BR, which is also known as IL-17 receptor homolog 1. IL-17E mRNA is detected at very low levels in several peripheral tissues. IL-17E induces the activation of NFκB and stimulates the production of the proinflammatory chemokine IL-8. In addition, IL-17E has catabolic activity on human articular cartilage. IL-17E is a unique pleiotropic cytokine that may be an important mediator of inflammatory and immune responses. Another homolog of IL-17, IL-17F, is a secreted cytokine expressed only in activated CD4<sup>+</sup> T cells and activated monocytes. IL-17F stimulates the production of other cytokines such as IL-6, IL-8 and granulocyte colony-stimulating factor, and regulates cartilage matrix turnover.

### REFERENCES

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3. Lee, J., Ho, W.H., Maruoka, M., Corpuz, R.T., Baldwin, D.T., Foster, J.S., Goddard, A.D., Yansura, D.G., Vandlen, R.L., Wood, W.I. and Gurney, A.L. 2001. IL-17E, a novel proinflammatory ligand for the IL-17 receptor homolog IL-17Rh1. *J. Biol. Chem.* 276: 1660-1664.
4. Starnes, T., Robertson, M.J., Sledge, G., Kelich, S., Nakshatri, H., Broxmeyer, H.E. and Hromas, R. 2001. Cutting edge: IL-17F, a novel cytokine selectively expressed in activated T cells and monocytes, regulates angiogenesis and endothelial cell cytokine production. *J. Immunol.* 167: 4137-4140.
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### CHROMOSOMAL LOCATION

Genetic locus: IL25 (human) mapping to 14q11.2; Il25 (mouse) mapping to 14 C3.

### SOURCE

IL-17E (68C1039) is a mouse monoclonal antibody raised against amino acids 115-132 of IL-17E of human origin.

### PRODUCT

Each vial contains 100 µg IgG<sub>2b</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

IL-17E (68C1039) is recommended for detection of IL-17E of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for IL-17E siRNA (h): sc-39654, IL-17E siRNA (m): sc-39655, IL-17E shRNA Plasmid (h): sc-39654-SH, IL-17E shRNA Plasmid (m): sc-39655-SH, IL-17E shRNA (h) Lentiviral Particles: sc-39654-V and IL-17E shRNA (m) Lentiviral Particles: sc-39655-V.

Molecular Weight of IL-17E: 25 kDa.

### SELECT PRODUCT CITATIONS

1. Liu, J., Qian, B., Zhou, L., Shen, G., Tan, Y., Liu, S., Zhao, Z., Shi, J., Qi, W., Zhou, T., Yang, X., Gao, G. and Yang, Z. 2022. IL25 enhanced colitis-associated tumorigenesis in mice by upregulating transcription factor GLI1. *Front. Immunol.* 13: 837262.

### 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) for detailed protocols and support products.