SANTA CRUZ BIOTECHNOLOGY, INC.

IL-17E (30479): sc-74175

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 HSV-13 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: IL17E (human) mapping to 14q11.2; Il17e (mouse) mapping to 14 C3.

SOURCE

IL-17E (30479) is a mouse monoclonal antibody raised against full length recombinant IL-17E of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

IL-17E (30479) 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), flow cytometry (1 µg per 1 x 10^6 cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with IL-17, IL-17B, C and F.

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.

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 for detailed protocols and support products.