SANTA CRUZ BIOTECHNOLOGY, INC.

IL-17C (N-20): sc-11142

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Cytokines are small, soluble proteins with pleiotropic effects on a variety of cell types, have a regulatory function over the immune system and mediate aspects of inflammatory response. Cytokines 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. IL-17B and IL-17C are two related family members that bind and activate different cell surface receptors, other than the IL-17 receptor. IL-17B and IL-17C also differ from IL-17 in their patterns of expression and biological activities. IL-17B is expressed in normal human adult pancreas, small intestine and stomach, whereas IL-17C is only expressed in adult prostate and fetal kidney.

REFERENCES

1. Arend, W.P., et al. 1994. Binding of IL-1α, IL-1β, 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.
3. Cohen, M.C., et al. 1996. Cytokine function: a study in biologic diversity. Amer. J. Clin. Pathol. 105: 589-598.
4. Ihle, J.N. 1996. Janus kinases in cytokine signalling. Phil. Trans. Royal Soc. London 351: 159-166.
5. Li, H., et al. 2000. Cloning and characterization of IL-17B and IL-17C, two new members of the IL-17 cytokine family. Prod. Natl. Acad. Sci. USA 97: 773-778.

CHROMOSOMAL LOCATION

Genetic locus: IL17C (human) mapping to 16q24.3.

SOURCE

IL-17C (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of IL-17C 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.

Blocking peptide available for competition studies, sc-11142 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IL-17C (N-20) is recommended for detection of IL-17C of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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-17C siRNA (h): sc-39653, IL-17C shRNA Plasmid (h): sc-39653-SH and IL-17C shRNA (h) Lentiviral Particles: sc-39653-V.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.