BACKGROUND
Interleukins are a group of cytokines produced by a wide variety of cells. Interleukin 21 (IL-21) is a small secreted interleukin molecule that has potent effects on lymphoid cells. Specifically, IL-21 stimulates B cell proliferation in an anti-CD40-dependent manner, and also activates anti-CD3-regulated stimulation of the proliferation of naive (CD45RA-positive) cytotoxic T cells. IL-21 is regulated by the T-helper cell subset-specific action of Tbet, which repressed its expression, and Nfatc2, which promotes its expression. IL-21 is most closely related to IL-2 and IL-15, and it plays an important role in the proliferation and maturation of natural killer (NK) cell populations from bone marrow, though this role differs between species. Human IL-21 enhances NK cell proliferation, but murine IL-21 inhibits NK cell proliferation.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: IL21 (human) mapping to 4q27.

SOURCE
IL-21 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of IL-21 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-17649 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

APPLICATIONS
IL-21 (C-17) is recommended for detection of IL-21 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-21 siRNA (h): sc-39662, IL-21 shRNA Plasmid (h): sc-39662-SH and IL-21 shRNA (h) Lentiviral Particles: sc-39662-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.

SELECT PRODUCT CITATIONS

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.