

IL-19 (C-20): sc-16729

BACKGROUND

IL-14 (high molecular weight B cell growth factor, or HMW-BCGF) plays a significant role in the rapid proliferation of aggressive B cell-type non-Hodgkin's lymphoma. IL-19 and IL-20 are IL-10-related cytokines; IL-19 is involved in melanoma differentiation while IL-20 plays an essential role in epidermal function and psoriasis. Like other interleukin molecules, IL-21 is a small secreted molecule with potent effects on lymphoid cells and is most closely related to IL-2 and IL-15. IL-21 has a role in the proliferation and maturation of natural killer cell populations from bone marrow, in the proliferation of mature B-cell populations co-stimulated with anti-CD40, and in the proliferation of T cells co-stimulated with anti-CD3.

REFERENCES

1. Ford, R., et al. 1995. Identification of B-cell growth factors (interleukin-14; high molecular weight-B-cell growth factors) in effusion fluids from patients with aggressive B-cell lymphomas. *Blood* 86: 283-293.
2. Gallagher, G., et al. 2000. Cloning, expression and initial characterization of interleukin-19 (IL-19), a novel homologue of human interleukin-10 (IL-10). *Genes Immun.* 1: 442-450.
3. Parrish-Novak, J., et al. 2000. Interleukin-21 and its receptor are involved in NK cell expansion and regulation of lymphocyte function. *Nature* 408: 57-63.
4. Blumberg, H., et al. 2001. Interleukin-20: discovery, receptor identification, and role in epidermal function. *Cell* 104: 9-19.
5. Vosshenrich, C.A., et al. 2001. Cytokines: IL-21 joins the γ_c -dependent network? *Curr. Biol.* 11: R175-R177.

CHROMOSOMAL LOCATION

Genetic locus: ZMDA1 (human) mapping to 1q32.1.

SOURCE

IL-19 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of IL-19 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-16729 P, (100 μ g 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.

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.

APPLICATIONS

IL-19 (C-20) is recommended for detection of IL-19 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

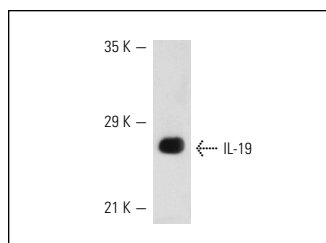
Suitable for use as control antibody for IL-19 siRNA (h): sc-39659, IL-19 shRNA Plasmid (h): sc-39659-SH and IL-19 shRNA (h) Lentiviral Particles: sc-39659-V.

Molecular Weight of IL-19: 18 kDa.

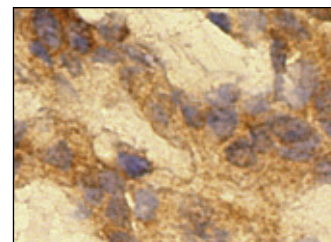
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



IL-19 (C-20): sc-16729. Western blot analysis of human recombinant IL-19.



IL-19 (C-20): sc-16729. Immunoperoxidase staining of formalin fixed, paraffin-embedded human breast tumor showing cytoplasmic and extracellular localization.

SELECT PRODUCT CITATIONS

1. Baluchamy, S., et al. 2010. Differential oxidative stress gene expression profile in mouse brain after proton exposure. *In Vitro Cell. Dev. Biol. Anim.* 46: 718-725.