

IL-28 (E-15): sc-46373

BACKGROUND

The interleukins are a broad family of well characterized cytokines, primarily of hematopoietic cell origin. As new cytokines are molecularly characterized, they are assigned an IL number to maintain a standard nomenclature. The interleukins are secreted by immune cells (mainly macrophages, B-cells or T-cells) that regulate a wide range of immune system functions. The functions of different interleukins vary from the regulation of inflammatory and immune responses to the regulation of other interleukins. Induced by viral infection and show antiviral activity, IL-28A, IL-28B and IL-29 are closely related genes that form a cytokine gene cluster on human chromosome region mapped to 19q13.2. IL-28A and IL-28B may play a role in antiviral immunity through up-regulation of MHC class I antigen expression and act as ligands for the heterodimeric class II cytokine receptor composed of IL-10R β and IL-28R.

REFERENCES

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2. Pestka, S., et al. 2004. Interferons, interferon-like cytokines, and their receptors. *Immunol. Rev.* 202: 8-32.
3. Bartlett, N.W., et al. 2004. A new member of the interleukin 10-related cytokine family encoded by a poxvirus. *J. Gen. Virol.* 85: 1401-1412.
4. Donnelly, R.P., et al. 2004. The expanded family of class II cytokines that share the IL-10 receptor-2 (IL-10R2) chain. *J. Leukoc. Biol.* 76: 314-321.
5. Pestka, S., et al. 2004. Interleukin-10 and related cytokines and receptors. *Annu. Rev. Immunol.* 22: 929-979.
6. Logsdon, N.J., et al. 2004. The IL-10R2 binding hot spot on IL-22 is located on the N-terminal helix and is dependent on N-linked glycosylation. *J. Mol. Biol.* 342: 503-514.

CHROMOSOMAL LOCATION

Genetic locus: Ifnl2/Ifnl3 (mouse) mapping to 7 A3.

SOURCE

IL-28 (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of IL-28B of mouse 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-46373 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

IL-28 (E-15) is recommended for detection of IL-28A and IL-28B of mouse 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).

Molecular Weight of IL-28: 25 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) 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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.


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Try **IL-28 (D-12): sc-137151** or **IL-28 (A-3): sc-137207**, our highly recommended monoclonal alternatives to IL-28 (E-15).