

IL-11R α (H-300): sc-25476

BACKGROUND

The pleiotropic cytokine, IL-11, has been shown to have proliferative and differentiation effects on lymphopoietic, myeloid and erythroid cells. IL-11 also has the inhibiting effect of repressing adipogenesis *in vitro*. The IL-11 α receptor, IL-11R α , is a member of the class 1 subgroup of the cytokine receptor family and exhibits structural similarity to the α subunits of the human ciliary neurotrophic factor (CNTF) and the mouse IL-6 receptor. It is speculated that the IL-11R α regulates the proliferation and/or differentiation of skeletal progenitor and mesenchymal cells. Co-expression of gp130 and IL-11 α is necessary for high-affinity binding of IL-11 to IL-11R α . It has also been found that co-expression of IL-11R α and gp130 is required for proper stimulation of Ba/F3 cells to differentiate into macrophage in response to IL-11.

REFERENCES

1. Quesniaux, V.G., et al. 1993. Review of a novel hematopoietic cytokine, interleukin-11. *Intl. Rev. Exp. Pathol.* 34A: 205-214.
2. Keith, J.C., et al. 1994. IL-11, a pleiotropic cytokine: exciting new effects of IL-11 on gastrointestinal mucosal biology. *Stem Cells* 12: 79-89.

CHROMOSOMAL LOCATION

Genetic locus: IL11RA (human) mapping to 9p13.3; Il11ra1 (mouse) mapping to 4 A5.

SOURCE

IL-11R α (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 of IL-11R α 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.

APPLICATIONS

IL-11R α (H-300) is recommended for detection of IL-11R α of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

IL-11R α (H-300) is also recommended for detection of IL-11R α in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for IL-11R α . siRNA (h): sc-35647, IL-11R α siRNA (m): sc-35648, IL-11R α shRNA Plasmid (h): sc-35647-SH, IL-11R α shRNA Plasmid (m): sc-35648-SH, IL-11R α shRNA (h) Lentiviral Particles: sc-35647-V and IL-11R α shRNA (m) Lentiviral Particles: sc-35648-V.

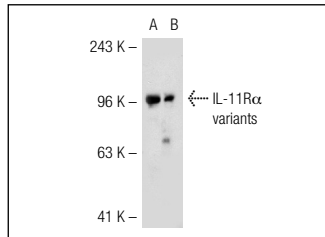
Molecular Weight of IL-11R α : 51/151 kDa.

Positive Controls: 3T3-L1 cell lysate: sc-2243, IL-11R α (m2): 293T Lysate: sc-125492 or K-562 whole cell lysate: sc-2203.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



IL-11R α (H-300): sc-25476. Western blot analysis of IL-11R α expression in non-transfected: sc-117752 (A) and mouse IL-11R α transfected: sc-125492 (B) 293T whole cell lysates.

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.

MONOS
Satisfaction
Guaranteed

Try **IL-11R (4D12): sc-130920** or **IL-11R α (F-10): sc-393039**, our highly recommended monoclonal alternatives to IL-11R α (H-300).