

IL-9R (H-230): sc-50316

BACKGROUND

Interleukin-9 (IL-9) functions to support the growth of helper T cells, megakaryoblastic leukemia cells, fetal thymocytes, erythroid and myeloid precursors and mast cells. The murine IL-9 receptor has been identified as a protein expressed on a T cell clone. Both the murine and human IL-9 receptor cDNAs have been isolated by expression cloning from the murine T cell clone TS1 and the human megakaryoblastic leukemia cell line M07E, respectively. In addition, the cloning and analysis of the complete human IL-9 receptor genomic DNA has been reported. In this latter study, the IL-9R gene was shown to consist of 10 exons expressed over approximately 13.7 kb of DNA.

REFERENCES

1. Uytendhoeve, C., et al. 1988. Functional and structural characterization of P40, a mouse glycoprotein with T cell growth factor activity. *Proc. Natl. Acad. Sci. USA* 85: 6934-6938.
2. Yang, Y.C., et al. 1989. Expression cloning of a cDNA encoding a novel human hematopoietic growth factor: human homologue of murine T cell growth factor P40. *Blood* 74: 1880-1884.
3. Donahue, R.E., et al. 1990. Human P40 T cell growth factor (interleukin-9) supports erythroid colony formation. *Blood* 75: 2271-2275.
4. Druetz, C., et al. 1990. Functional and biochemical characterization of mouse P40/IL-9 receptors. *J. Immunol.* 145: 2494-2499.
5. Renauld, J.C., et al. 1992. Expression cloning of the murine and human IL-9 receptor cDNAs. *Proc. Natl. Acad. Sci. USA* 89: 5690-5694.
6. Chang, M.S., et al. 1994. Isolation and characterization of the human IL-9 receptor gene. *Blood* 83: 3199-3205.

CHROMOSOMAL LOCATION

Genetic locus: IL9R (human) mapping to Xq28.

SOURCE

IL-9R (H-230) is a rabbit polyclonal antibody raised against amino acids 41-270 mapping within an N-terminal extracellular domain of IL-9R 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.

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-9R (H-230) is recommended for detection of IL-9R of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for IL-9R siRNA (h): sc-40049, IL-9R shRNA Plasmid (h): sc-40049-SH and IL-9R shRNA (h) Lentiviral Particles: sc-40049-V.

Molecular Weight of human IL-9R: 57 kDa.

Molecular Weight of mouse IL-9R: 52 kDa.

Positive Controls: MOLT-4 cell lysate: sc-2233.

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.


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Try **IL-9R (F-3): sc-515622**, our highly recommended monoclonal alternative to IL-9R (H-230).