BACKGROUND

Lymphokines are a group of signaling molecules involved in communication between cells of the immune system. Lymphokines secreted by activated lymphocytes include proteins such as interleukin-2. This protein is secreted primarily by helper T cells that have been activated through the T cell receptor complex or by other mitogens. Cells targeted by IL-2 include activated T helper and cytotoxic T cells, inducing their proliferation. The secretion of IL-2 can also act as a growth factor for B cells. To date, three different IL-2-dependent signal transduction pathways have been identified: the c-Fos/c-Jun induction pathway mediated by Src family protein-tyrosine kinases, the c-Myc induction pathway and the rapamycin-sensitive pathway, all of which result in the induction of Bcl-2. In addition, the transcription factor NFAT has been shown to play a major role in the regulation of IL-2 transcription and correlates to an age-related decline in the expression of IL-2.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: IL2 (human) mapping to 4q27; IL2 (mouse) mapping to 3 B.

SOURCE

IL-2 (H-133) is a rabbit polyclonal antibody raised against amino acids 21-153 of IL-2 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.

APPLICATIONS

IL-2 (H-133) is recommended for detection of IL-2 of mouse, rat and 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), 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-2 siRNA (h): sc-39619, IL-2 siRNA (m): sc-39620, IL-2 shRNA Plasmid (h): sc-39619-SH, IL-2 shRNA Plasmid (m): sc-39620-SH, IL-2 shRNA (h)Lentiviral Particles: sc-39619-V and IL-2 shRNA (m) Lentiviral Particles: sc-39620-V.

Molecular Weight of IL-2: 15 kDa.

Positive Controls: Human placenta tissue extract.

DATA

IL-2 (H-133): sc-7896. Western blot analysis of human recombinant IL-2 fusion protein.

IL-2 (H-133): sc-7896. Immunperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic staining of epidermal cells.

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