

IL-12B p40 (1-1D5): sc-53349

BACKGROUND

Interleukin-12, or IL-12, also known as natural killer cell stimulatory factor (NKSF) and cytotoxic lymphocyte maturation factor (CLMF), is a pleiotropic cytokine that has multiple effects on both natural killer (NK) cells and T lymphocytes. IL-12 is a 75 kDa heterodimer composed of a 35 kDa subunit (IL-12A p35) and a 40 kDa subunit (IL-12B p40) that is secreted by a wide variety of antigen presenting cells (APCs), including phagocytes, B cells and Langerhans cells. IL-12 is integrally involved in mediating many aspects of antiviral immunity. In addition to stimulating T helper cell development, IL-12 is a potent inducer of interferon- γ (IFN- γ) production by T cells and NK cells. An increase of IL-12 production has been shown to be a consequence of infection with EBV, CMV, LCMV and HSV. It is not clear what separate effects can be attributed to each IL-12 subunit; however, there is evidence that IL-12A p35 is the biologically active component and may be responsible for signal transduction via the IL-12 receptor.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IL12B (human) mapping to 5q33.3.

SOURCE

IL-12B p40 (1-1D5) is a mouse monoclonal antibody raised against recombinant IL-12 of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available azide-free for Neutralizing, sc-53349 L, 200 μ g/0.1 ml.

APPLICATIONS

IL-12B p40 (1-1D5) is recommended for detection of IL-12B p40 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for IL-12B p40 siRNA (h): sc-39640, IL-12B p40 shRNA Plasmid (h): sc-39640-SH and IL-12B p40 shRNA (h) Lentiviral Particles: sc-39640-V.

Molecular Weight of IL-12B p40: 40 kDa.

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 for detailed protocols and support products.