IL-12 p70 (QS-12p70): sc-57257



The Power to Question

BACKGROUND

The interleukins (ILs) 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. ILs are secreted by immune cells that regulate a wide range of immune system functions. IL-12 is secreted by macrophages and human B-lymphoblastoid cells in response to antigenic stimulation. This IL is responsible for the differentiation of naive CD4+ T cells into type 1 helper T cells that produce interferon- γ (IFN- γ). It also activates production of tumor necrosis factor α (TNF α) from T and natural killer (NK) cells, and it inhibits IL-4 mediated suppression of IFN- γ . IL-12 also has anti-angiogenic activity since the production of IFN- γ increases the production of inducible protein-10 (IP-10). IL-12 p40 represents a subunit of IL-12 that is induced by several pathogens. IL-12 p70 is a subunit of IL-12 that is controlled through both the p35 and p40 genes in a cell type-specific fashion.

REFERENCES

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CHROMOSOMAL LOCATION

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

RESEARCH USE

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

SOURCE

IL-12 p70 (QS-12p70) is a mouse monoclonal antibody raised against full length IL-12 of human origin.

PRODUCT

Each vial contains 100 μg lgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

IL-12 p70 (QS-12p70) is recommended for detection of IL-12 p70 heterodimer of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with the p35 or p40 monomer.

Molecular Weight of IL-12 p70: 70 kDa.

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 for detailed protocols and support products.

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