SANTA CRUZ BIOTECHNOLOGY, INC.

IL-12A p35 (23-219): sc-4289 WB

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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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SOURCE

IL-12A p35 (23-219) is expressed in *E. coli* as a 49 kDa tagged fusion protein corresponding to amino acids 23-219 of IL-12A p35 of human origin.

PRODUCT

IL-12A p35 (23-219) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

IL-12A p35 (23-219) is suitable as a Western blotting control for sc-1280 and sc-1282.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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