SANTA CRUZ BIOTECHNOLOGY, INC.

IL-13 (32116.11): sc-57261

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Interleukin-13, or IL-13, is a pleiotropic cytokine that exhibits 30% sequence identity with IL-4 and shares many of the same biological activities. Like IL-4, IL-13 affects monocytes, macrophages and B cells by upregulating the expression of CD23 and MHC proteins and downregulating the expression of CD14. Both IL-4 and IL-13 are secreted by activated T lymphocytes and are powerful regulators of inflammation. Both inhibit the secretion of proinflammatory cytokines and chemokines from activated monocytes and stimulate the expression of IgE on activated B cells. IL-13 contains five cysteine residues and multiple N-linked glycosylation sites and has been reported to inhibit the production of IL-2 in natural killer cells. IL-13 cDNA encodes a 131 amino acid precursor with a 20 amino acid signal peptide which is cleaved to generate a mature protein.

REFERENCES

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5. Katz, Y., et al. 1995. IL-13 results in differential regulation of the complement proteins C3 and factor B in tumour necrosis factor (TNF)-stimulated fibroblasts. Clin. Exp. Immunol. 101: 150-156.
6. Cosentino, G., et al. 1995. IL-13 downregulates CD14 expression and TNFα secretion in normal human monocytes. J. Immunol. 155: 3145-3151.
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CHROMOSOMAL LOCATION

Genetic locus: IL13 (human) mapping to 5q31.1.

SOURCE

IL-13 (32116.11) is a mouse monoclonal antibody raised against full length IL-13 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

IL-13 (32116.11) is recommended for detection of IL-13 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for IL-13 siRNA (h): sc-39642, IL-13 shRNA Plasmid (h): sc-39642-SH and IL-13 shRNA (h) Lentiviral Particles: sc-39642-V.

Molecular Weight of IL-13: 13 kDa.

Positive Controls: human heart extract: sc-363763.

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.