



IL-13 (21-132): sc-4318 WB

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 effects 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 13 kDa protein.

REFERENCES

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SOURCE

IL-13 (21-132) is expressed in *E. coli* as a 39 kDa tagged fusion protein corresponding to amino acids 21-132 of IL-13 of human origin.

PRODUCT

IL-13 (21-132) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 μ g in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

IL-13 (21-132) is suitable as a Western blotting control for sc-1292 and sc-7901.

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.