

## IL-15 (49-162): sc-4308 WB

### BACKGROUND

Interleukin-15 (IL-15), also designated IL-T, is a 14 kDa cytokine which shares several biological activities but no sequence homology with IL-2. Human, mouse and simian IL-15 cDNA clones have been isolated and characterized. All three species encode a 162 amino acid residue precursor protein containing a 48 amino acid leader that is cleaved to generate the mature form of IL-15. IL-15 stimulates the proliferation of T cells and NK cells while enhancing B cell expansion and antibody production. Unlike IL-2, IL-15 is not produced by lymphocytes, but appears to be produced by macrophages, epithelial lines, muscle and placenta. IL-15 has also been shown to be a chemoattractant for human blood T lymphocytes and to be able to induce lymphokine-activated killer (LAK) activity in NK cells as well as to be able to induce the generation of cytolytic effector cells. Studies have shown that IL-15 is the only other cytokine that shares the  $\beta$  signaling subunit of the IL-2R. Evidence also suggests that like IL-2, IL-4 and IL-7, IL-15 utilizes the common IL-2R $\gamma$  subunit.

### REFERENCES

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### SOURCE

IL-15 (49-162) is expressed in *E. coli* as a 40 kDa tagged fusion protein corresponding to amino acids 49-162 of IL-15 of human origin.

### PRODUCT

IL-15 (49-162) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10  $\mu$ g protein in 0.1 ml SDS-PAGE loading buffer.

### APPLICATIONS

IL-15 (49-162) is suitable as a Western blotting control for sc-1296, sc-7889 and sc-8437.

### 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.