**IL-11 (h): 293T Lysate: sc-113495**

**BACKGROUND**

Interleukin-11, or IL-11, is a pleiotropic cytokine that is biologically related to IL-6, leukemia inhibitory factor (LIF), oncostatin M (OSM) and ciliary neurotrophic factor (CNTF). IL-11 is a stromal cell-derived cytokine which stimulates the proliferation of primitive hematopoietic progenitor cells and, together with Flt 3-L, stimulates the expansion of CD34+ cell populations. Human IL-11 cDNA encodes a 199 amino acid precursor with a 21 amino acid hydrophobic signal peptide which is cleaved to generate a glycosylated biologically active form. IL-11 exerts its biological effects through the interleukin-11 receptor, IL-11R, which is composed of an IL-11 receptor-specific chain designated IL-11Rα, and gp130, the signal transducing component common to the IL-6, LIF, OSM and CNTF receptors. Stimulation of the IL-11R results in the activation of the Janus tyrosine kinase family members JAK1 and JAK2 which, once activated, induce the nuclear translocation of the transcription factors Stat1 and Stat3.

**REFERENCES**


4. van de Ven, C., Ishizawa, L., Law, P. and Cairo, M.S. 1995. IL-11, leukemia inhibitory factor, oncostatin M, and ciliary neurotrophic factor expression in non-transfected: sc-117752 (A) and human IL-11 transfected: sc-113495 (B) whole cell lysates.


**CHROMOSOMAL LOCATION**

Genetic locus: IL11 (human) mapping to 19q13.42.

**PRODUCT**

IL-11 (h): 293T Lysate represents a lysate of human IL-11 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

**APPLICATIONS**

IL-11 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive IL-11 antibodies. Recommended use: 10-20 µl per lane. Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

IL-11 (KT8); sc-101484 is recommended as a positive control antibody for Western Blot analysis of enhanced human IL-11 expression in IL-11 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

**STORAGE**

Store at -20°C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

**DATA**

IL-11 (KT8): sc-101484. Western blot analysis of IL-11 expression in non-transfected: sc-117752 (A) and human IL-11 transfected: sc-113495 (B) 293T whole cell lysates.

IL-11 (F-3): sc-133084. Western blot analysis of IL-11 expression in non-transfected: sc-117752 (A) and human IL-11 transfected: sc-113495 (B) 293T whole cell lysates.

**APPENDIX**

- **AB**
  - IL-11 (KT8): sc-101484
  - IL-11 (F-3): sc-133084

- **A**
  - 23 K – 19 K – 17 K –

- **B**
  - 34 K –