

Interleukin 11 (IL11) Active Protein | IL11 active protein

Active Interleukin 11 (IL11)

CATALOG # AAA148159	HOST E Coli	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Interleukin 11 (IL11); Active Interleukin 11 (IL11); AGIF; Adipogenesis Inhibitory Factor; Oprelvekin; IL11 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 90%
Form/Format	Freeze-dried powder
Sequence Length	199
Applicable Applications for IL11 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Pro22~Leu199
Isoelectric Point	11.3

IMAGES

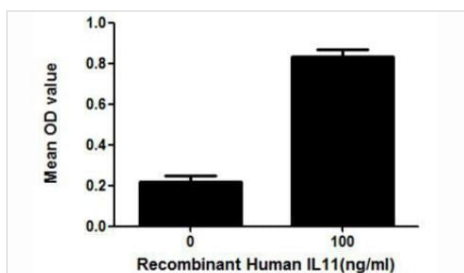
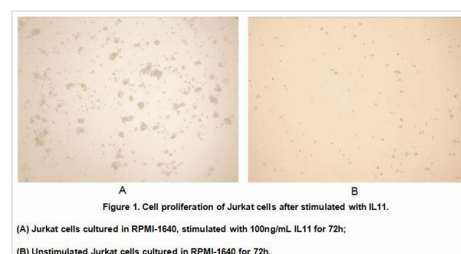
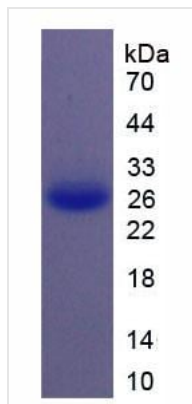


Figure 2. Cell proliferation of Jurkat cells after stimulated with IL11.

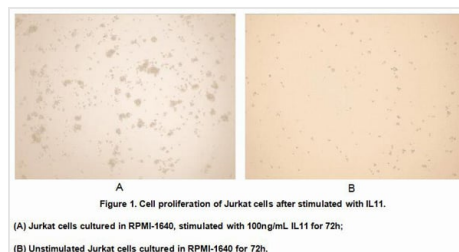


Application Data

Application Data



SDS-PAGE



Activity

IL11 (Interleukin-11) is a multifunctional cytokine first isolated from bone marrow-derived stromal cells. It stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production. Besides, IL11 is reported to induce the proliferation of human T-cells, thus, a proliferation assay was conducted to detect the bioactivity of human recombinant IL11 using Jurkat cells. Briefly, Jurkat cells were seeded into triplicate wells of 96-well plates at a density of 10,000 cells/well in RPMI-1640 with the addition of various concentrations of IL11. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μL of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Cell proliferation of Jurkat cells after incubation with IL11 for 72h observed by inverted microscope was shown in Figure 1. The CCK-8 data was shown in Figure 2. It was obvious that IL11 significantly promoted cell proliferation of Jurkat cells.

ADDITIONAL INFORMATION

Product Categories/Family for IL11 active protein	Cytokine; Infection immunity; Rheumatology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10834994
NCBI GeneID	3589
NCBI Accession #	NP_000632.1
NCBI GenBank Nucleotide #	NM_000641.3
UniProt Accession #	P20809; Q96EB4; B4DQV5
Molecular Weight	Predicted Molecular Weight: 25.4kDa Accurate Molecular Weight: 27kDa
NCBI Official Full Name	interleukin-11 isoform 1
NCBI Official Synonym Full Names	interleukin 11
NCBI Official Symbol	IL11
NCBI Official Synonym Symbols	AGIF; IL-11
NCBI Protein Information	interleukin-11
UniProt Protein Name	Interleukin-11
UniProt Gene Name	IL11
UniProt Synonym Gene Names	AGIF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.