

Interleukin 11 Active Protein | IL11 active protein

Active Interleukin 11 (IL11)

CATALOG #
AAA150057

APPLICATIONS
Activity Assay, Cell Culture

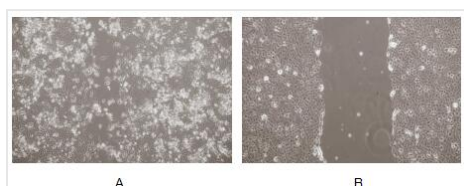
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

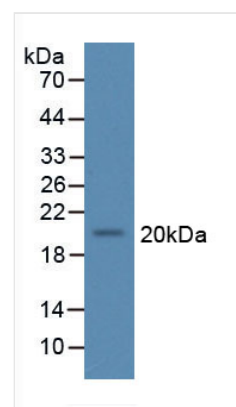
Purity/Purification	>97%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Pro22~Leu199
Sequence Length	120
Applicable Applications for IL11 active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



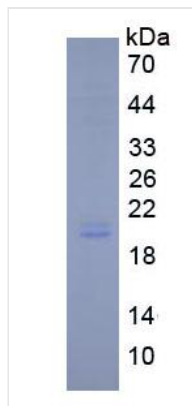
Application Data

Interleukin 11 (IL-11) is a multifunctional cytokine. It is a key regulator of multiple events in hematopoiesis, most notably the stimulation of megakaryocyte maturation. IL-11 has been demonstrated to improve platelet recovery after chemotherapy-induced thrombocytopenia, induce acute phase proteins, modulate antigen-antibody responses, participate in the regulation of bone cell proliferation and differentiation IL-11 causes bone-resorption. Besides, IL-11 have been proved can promote migration of A549 cells, 5×10⁴ cells were seeded into 6 well plates. After cell confluent, replace with DMEM without serum overnight. Using a (yellow) pipette tip make a straight scratch, simulating a wound, then washing the wells three times with PBS. Adding 1% serum standard DMEM containing various concentrations of recombinant human IL-11 to each well, incubating the plate for 48 hours at 37, 5% CO₂. The results observed by inverted microscope was shown in Figure.(A) A549 cells cultured in DMEM with 100ng/mL IL-11 for 48h; (B) A549 cells cultured in DMEM before addition IL-11. Figure. Wound healing assay of A549 cells after stimulated with IL-11.



WB (Western Blot)

Figure. Western Blot; Sample: Recombinant IL11, Human; Antibody: Rabbit Anti-Human IL11 Ab (PAA057Hu06)



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

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

NCBI GI #	391353380
NCBI GeneID	3589
NCBI Accession #	NP_001254647.1
NCBI GenBank Nucleotide #	NP_001254647.1
UniProt Accession #	P20809
Molecular Weight	Predicted Molecular Mass: 20.8kDa Accurate Molecular Mass: 20kDa
NCBI Official Full Name	interleukin-11 isoform 2
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	IL-11; AGIF
UniProt Entry Name	IL11_HUMAN

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.