

# Active Interleukin 11 (IL11)

## Instruction Manual

**SBPA036Hu61**

**Homo sapiens (Human)**

**Buffer Formulation**

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Traits**

Freeze-dried powder

**Purity**

> 97%

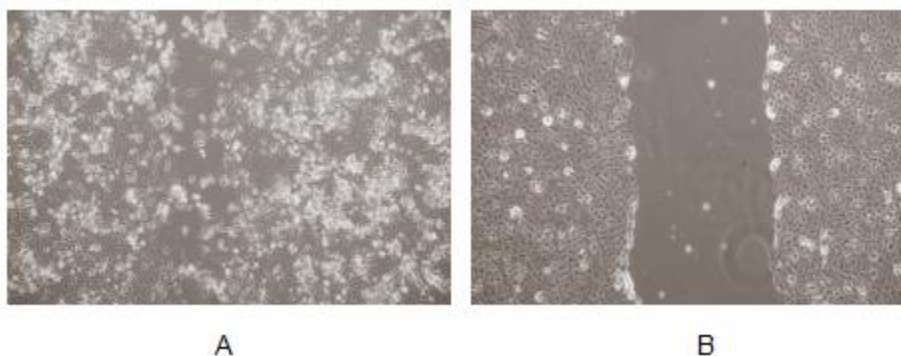
**Isoelectric Point**

11.7

**Applications**

Cell culture; Activity Assays.

### ACTIVITY TEST



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,  $5 \times 10^4$  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 recombinan human IL-11 to each well, incubating the plate for 48 hours at 37°C, 5% CO<sub>2</sub>. 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.

## USAGE

Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

## 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°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.

## Image

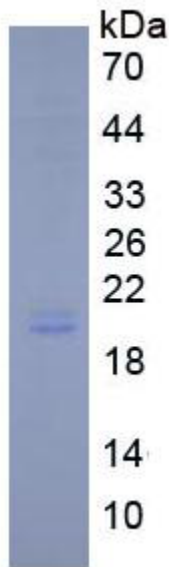
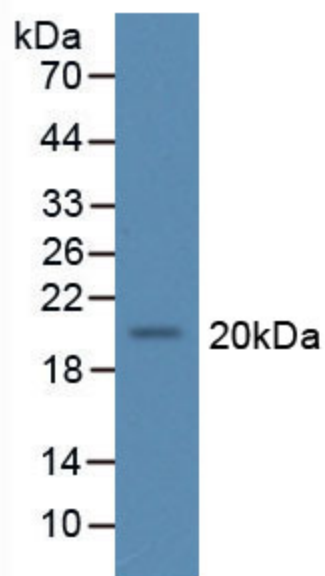


Figure. SDS-PAGE



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

**[IMPORTANT NOTE]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.