

Active Interferon Gamma (IFN γ) Instruction Manual

SBPA030Hu61

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

> 95%

Isoelectric Point

9.7

Applications

Cell culture; Activity Assays.

ACTIVITY TEST

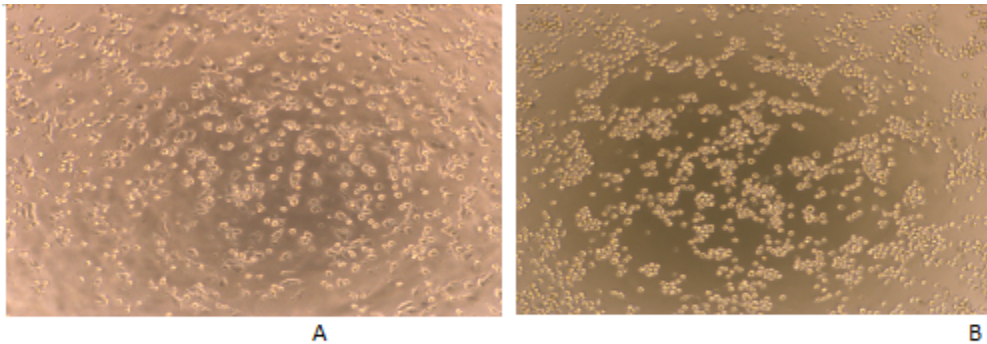


Figure 1. Effect of IFN- γ on THP1 cells.

(A) THP1 cells cultured in RPMI1640, stimulated with 5 ng/mL IFN- γ for 5 days;

(B) Unstimulated THP1 cells cultured in RPMI1640 (negative control)

IFN- γ is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFN γ in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. As reported, IFN γ is an important activator of human monocytic THP1 cells. Therefore, THP-1 cells were incubated in RPMI 1640 with various concentration of IFN- γ , then cells were observed by inverted microscope everyday. After stimulated with IFN- γ (5ng/ml) for 5 days, morphological changes occurred in THP1 cells which displayed the shape of fusiform or polygon and were more likely to adhere. Effect of IFN- γ on THP1 cells is shown in Figure 1.

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QDPYVKE AENLK KYFNA GHSDVADNGT  
LFLGILKNWK EESDRKIMQS QIVSFYFKLF KNFKDDQSIQ KSVETIKEDM  
NVKFFNSNKK KRDDFEKLTN YSVTDLNVQR KAIHELIVM AELSPAAKTG  
KRKRSQMLFR GRRASQ
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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

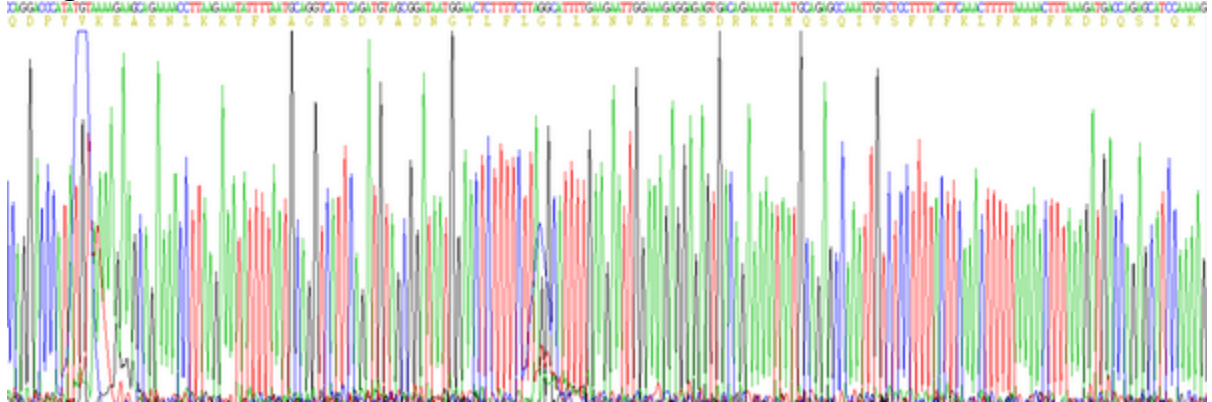
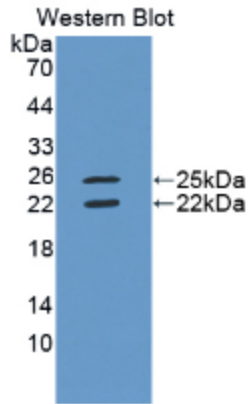


Figure. SDS-PAGE



Western Blot, Sample: APA049Hu61; Antibody: PAA049Hu06

[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.