

Active Interferon Gamma (IFN γ) Instruction Manual

SBPA030Hu01

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%

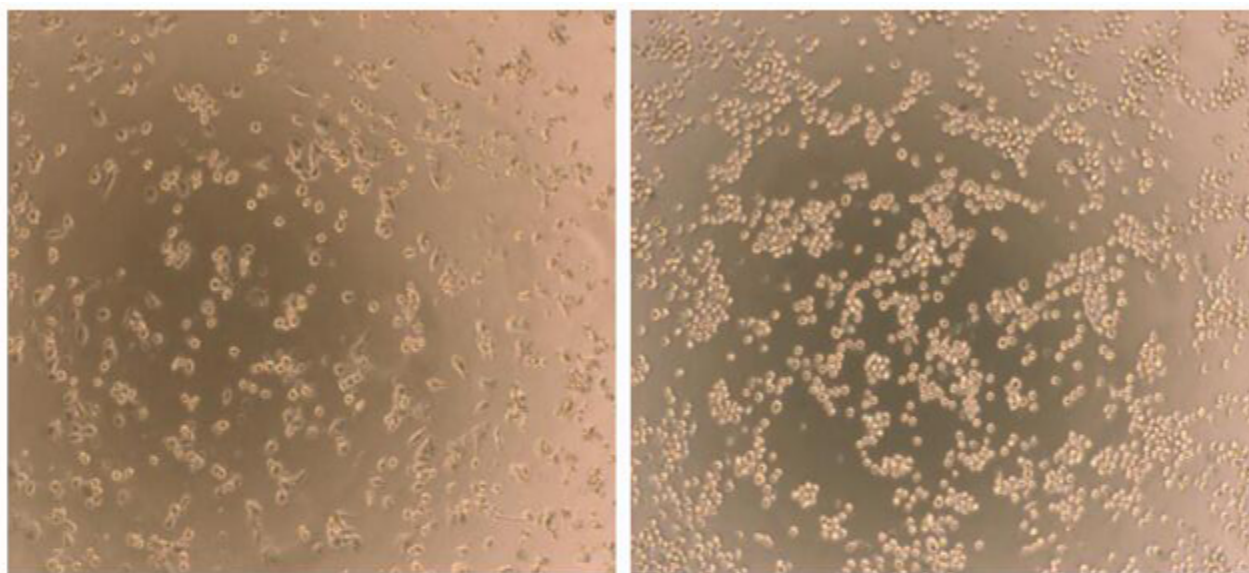
Isoelectric Point

9.6

Applications

Cell culture; Activity Assays.

ACTIVITY TEST



A

B

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

(A) THP1 cells cultured in RPMI 1640, stimulated with 2ng/mL IFN- γ for 5 days;

(B) Unstimulated THP1 cells cultured in RPMI 1640 (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 (2ng/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.

USAGE

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

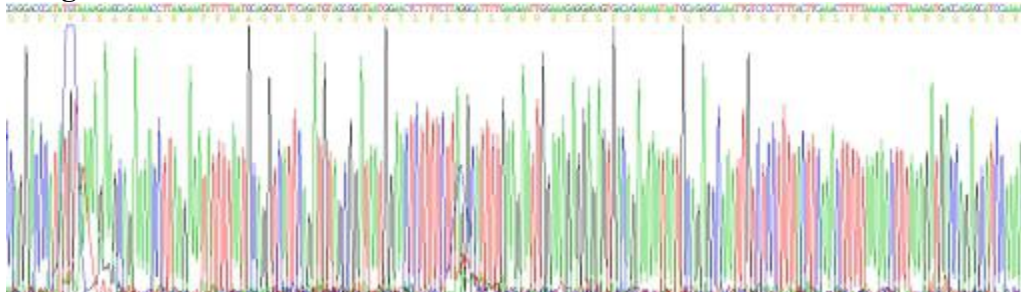
STORAGE

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



SDS-PAGE Image

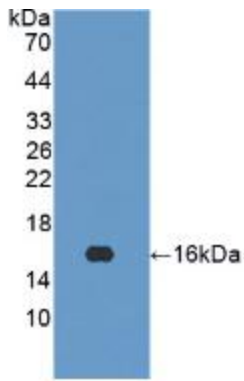


Figure. Western Blot; Sample: APA049Hu01;Antibody: PAA049Hu01.

[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.