

Active Tumor Necrosis Factor Alpha (TNFa) Instruction Manual

SBPA083Mu61

Mus musculus (Mouse)

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

5.0

Applications

Cell culture; Activity Assays.

ACTIVITY TEST



A



B

Figure 1. Effect of TNF-a on A549 cells.

(A) A549 cells cultured in DMEM, stimulated with 10ng/mL TNF-a for 72h;

(B) Unstimulated A549 cells cultured in DMEM for 72h.

TNF-a, being an endogenous pyrogen, is able to induce fever, necrosis, inflammation and to inhibit tumorigenesis. As reported, TNF-a could inhibit the proliferation and induce necrosis of A549 cells, and the concentration of IL-1 β in cell supernatant will increase after stimulation. Therefore, A549 cells were incubated in DMEM with TNFa (1ng/mL, 10ng/mL) for 2h, 4h, 8h, 24h, 48h, then cells were observed by inverted microscope and

IL-1 β was detected in the cell supernatant by ELISA .
Cell necrosis after incubation with TNF-a (10ng/mL) for 72h was shown in Figure 1.

Table 1. Effect of TNF- β on A549 cells by ELISA.

Sample (cell supernatant of A549 cells)	Concentration of IL-1β (ng/mL)
Stimulated with TNF- β (10ng/mL)	52.0
Unstimulated	4.9

The production of IL-1 β after incubation with TNF-a (10ng/mL) for 8h is shown in Table 1.

USAGE

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

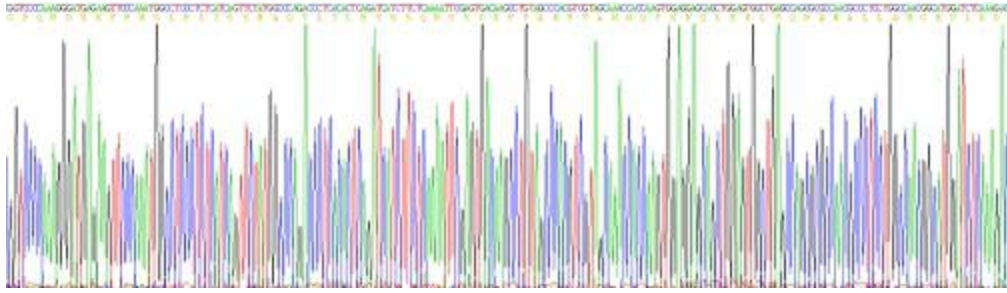
STORAGE

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

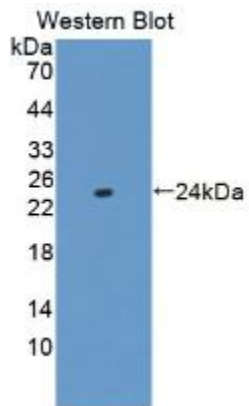


Figure. Western Blot; Sample: APA133Mu61; Antibody: PAA133Mu06

[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.