

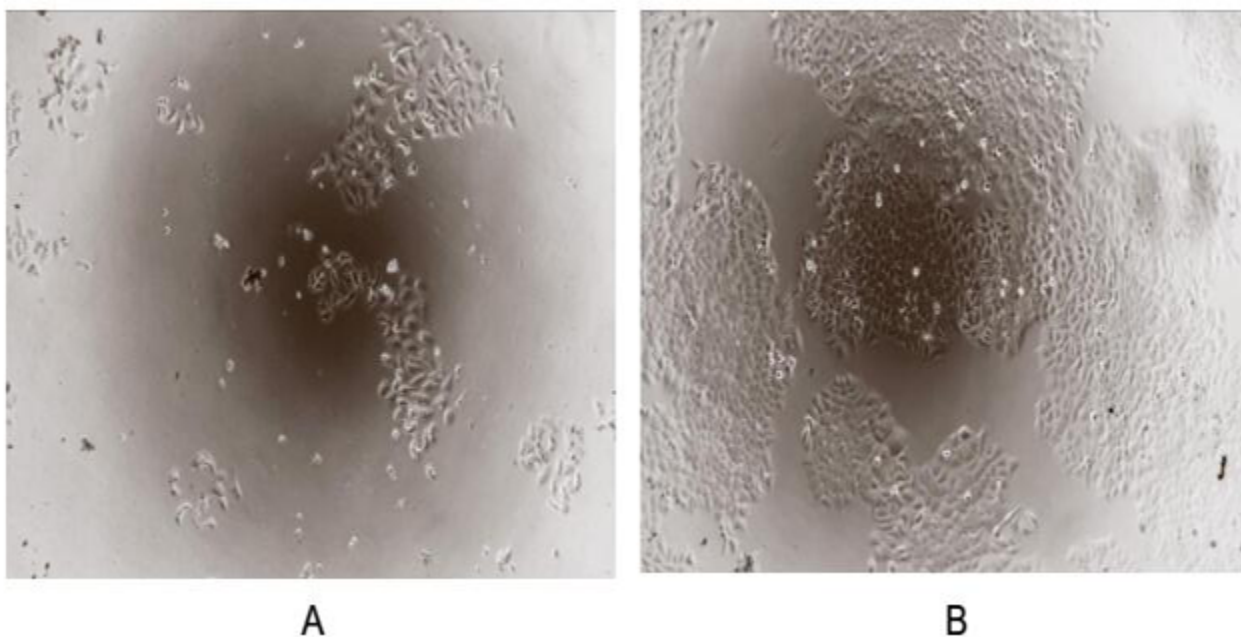
Active Transforming Growth Factor Beta 2 (TGFb2) Instruction Manual

SBPA101Ga01

Chicken (Gallus)

Buffer Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Traits	Freeze-dried powder
Purity	> 90%
Isoelectric Point	8.9
Applications	Cell culture; Activity Assays.

ACTIVITY TEST



Transforming growth factor beta (TGF- β) is a multifunctional cytokine belonging to the transforming growth factor superfamily. The TGF- β superfamily includes endogenous growth inhibiting proteins; an increase in expression of TGF- β often correlates with the malignancy of many cancers and a defect in the cellular growth inhibition response to TGF- β . Its immunosuppressive functions then come to dominate, contributing to oncogenesis. To test the effect of TGF- β on inhibit HGF-dependent proliferation, HepG2 cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach, replaced with serum-free overnight, then the medium was replaced with 2% serum standard DMEM including 1ng/mL HGF prior to the addition of various

concentrations of recombinant chicken TGF- β . After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ L of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. The inhibitory effect of TGF- β on HGF-dependent proliferation of HepG2 cells observed by inverted microscope was shown in Figure1. Cell viability was assessed by CCK-8 assay after incubation with recombinant TGF- β for 96h. The result was shown in Figure 2. It was obvious that TGF- β significantly decreased cell viability of HepG2 cells. (A) HepG2 cells cultured in DMEM, stimulated with 1 μ g/mL TGF- β for 96h; (B) Unstimulated HepG2 cells cultured in DMEM for 96h. Figure. The inhibitory effect of TGF- β on cell proliferation of HepG2 cells.

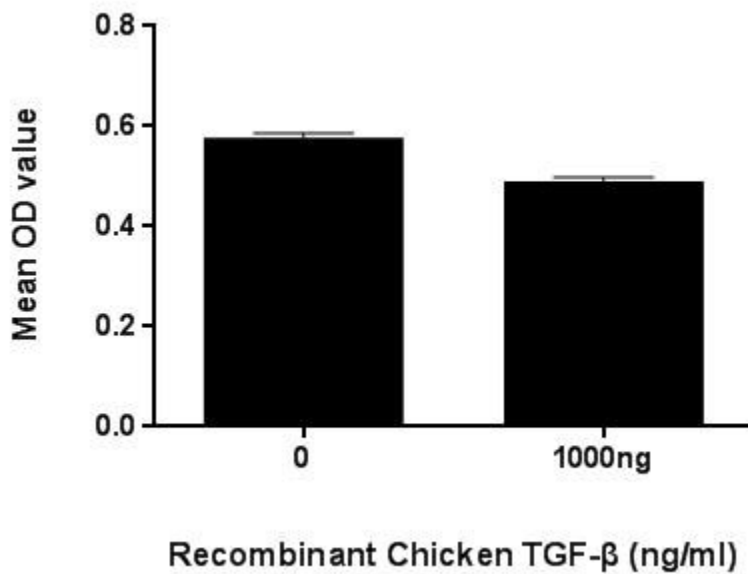


Figure. TGF- β inhibit cell proliferation of HepG2 cells.

USAGE

Reconstitute in 10mM PBS (pH7.4) 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

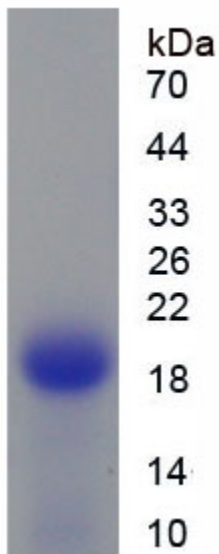


Figure. SDS-PAGE

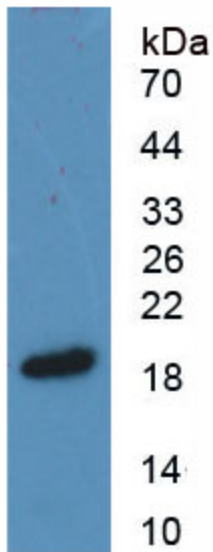


Figure. Western Blot

[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.