

Active Growth Arrest Specific Protein 6 (GAS6) Instruction Manual

SBPA099Hu01

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

> 90%

Isoelectric Point

5.6

Applications

Cell culture; Activity Assays.

ACTIVITY TEST

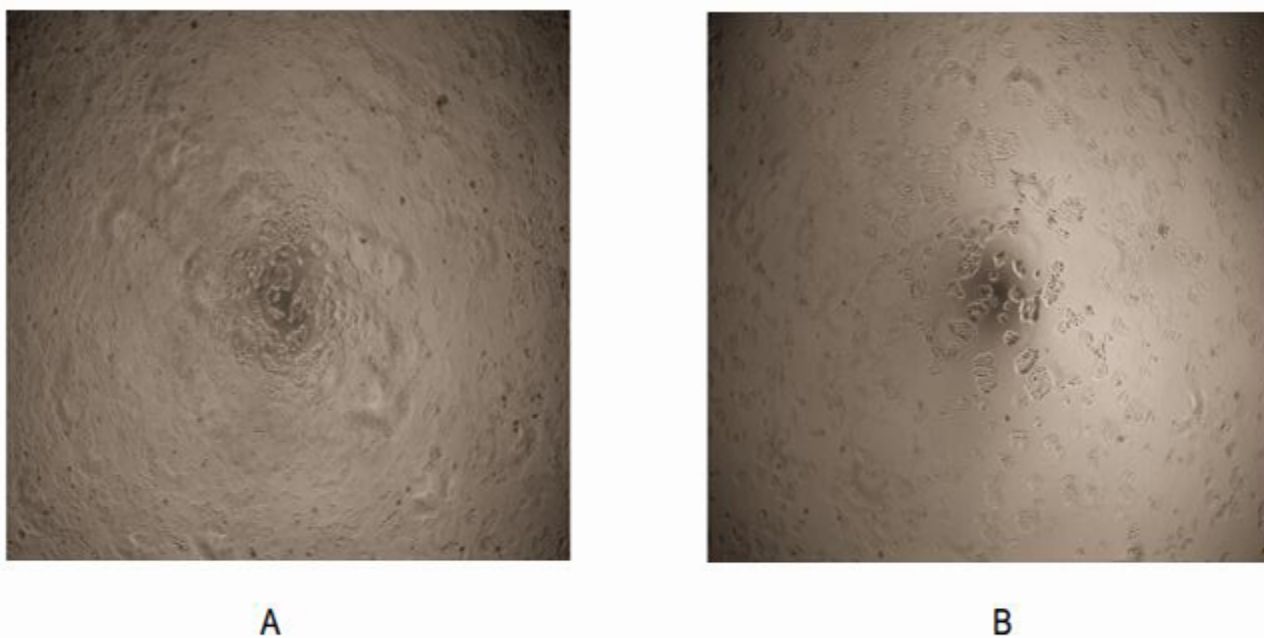


Figure 1. Cell proliferation of DU145 cells after stimulated with GAS6.

(A) DU145 cells cultured in serum-free DMEM, stimulated with 100ng/mL Gas6 for 72h;

(B) Unstimulated DU145 cells cultured in serum-free DMEM for 96h.

Growth arrest-specific 6, also known as GAS6, is a gamma-carboxyglutamic acid (Gla) domain-containing protein thought to be involved in the stimulation of cell proliferation.

It has been reported that both PC-3 and DU 145 human prostate cancer cell lines are stimulated to proliferate by Gas6, however, this proliferative response strictly correlates with the expression of the Axl receptor, being higher in DU 145 cells. To test the proliferative effect of Gas6, DU 145 cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of GAS6. After incubated for 72h, 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 measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37oC.

Cell proliferation of DU145 cells after incubation with GAS6 for 72h observed by inverted microscope was shown in Figure 1.

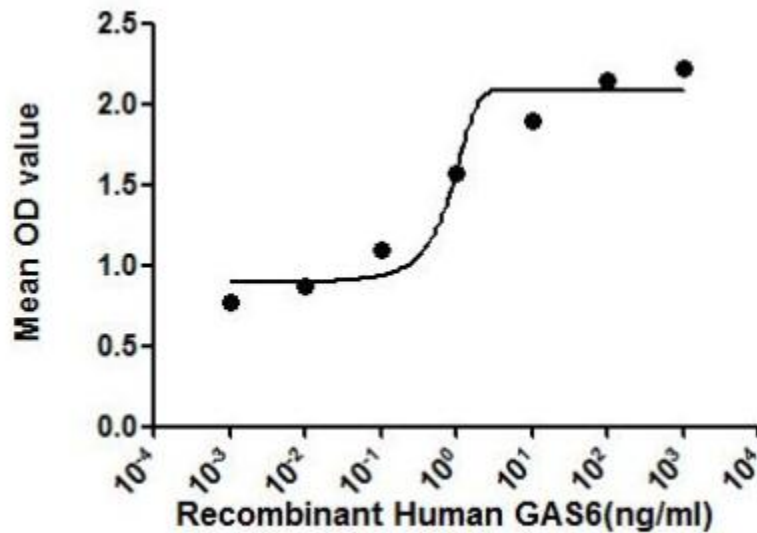


Figure 2. Cell proliferation of DU145 cells after stimulated with GAS6 detected by CCK8.

The dose-effect curve of GAS6 was shown in Figure 2. It was obvious that GAS6 significantly promoted cell proliferation of DU145 cells. The ED50 for this effect is typically 0.77~38.08ng/mL.

USAGE

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

STORAGE

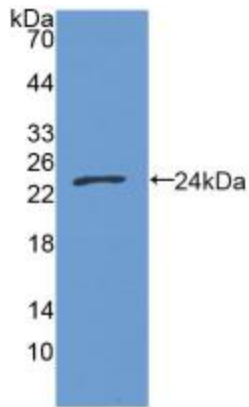


Figure. Western Blot; Sample: Recombinant GAS6, Human.

[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.