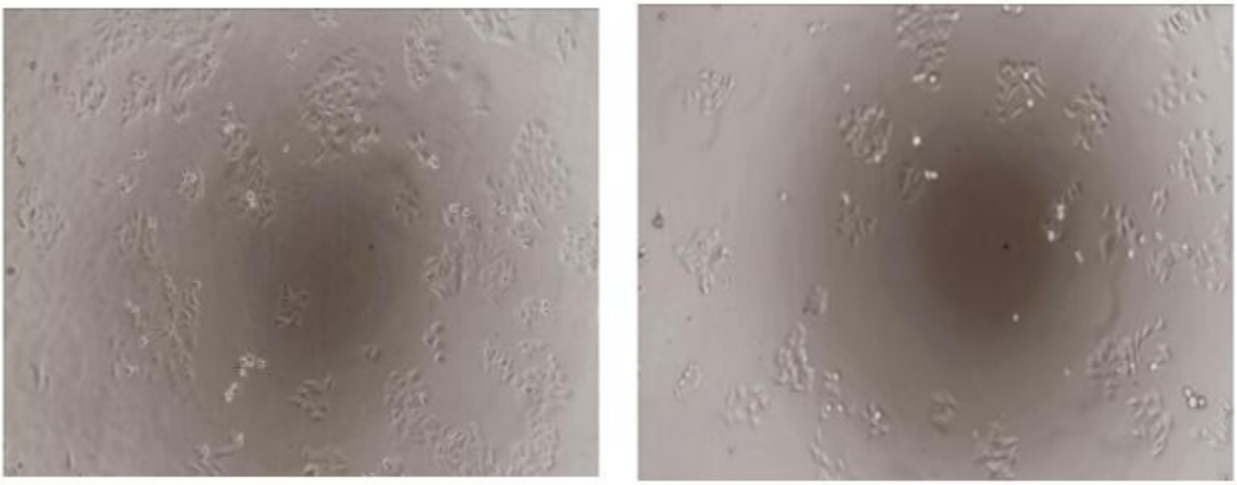
Active Annexin A2 (ANXA2) Instruction Manual

SBPB282Hu01

Homo sapiens (Human)

Buffer Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Traits	Freeze-dried powder
Purity	> 95%
Isoelectric Point	7.6
Applications	Cell culture; Activity Assays.

ACTIVITY TEST



A B

Annexin A2 (ANXA2) also known as annexin II is a member of the annexin family. Members of this calcium-dependent phospholipid-binding protein family play a role in the regulation of cellular growth and in signal transduction pathways. This protein functions as an autocrine factor which heightens osteoclast formation and bone resorption. ANXA2 is up-regulated in various tumor types and plays multiple roles in regulating cellular functions, including angiogenesis, proliferation, apoptosis, cell migration, invasion and adhesion. To test the effect of ANXA2 on cell proliferation, Hela 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 1% serum standard DMEM prior to the addition of various concentrations of recombinant human ANXA2. After incubated for 96h, cells were observed by inverted

microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μL 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℃. Proliferation of Hela cells after incubation with ANXA2 for 96h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 assay after incubation with recombinant ANXA2 for 96h. The result was shown in Figure 2. It was obvious that ANXA2 significantly increased cell viability of Hela cells. (A) Hela cells cultured in DMEM, stimulated with 10ng/mL ANXA2 for 96h;
(B) Unstimulated Hela cells cultured in DMEM for 96h.
Figure. Cell proliferation of Hela cells after stimulated with ANXA2.

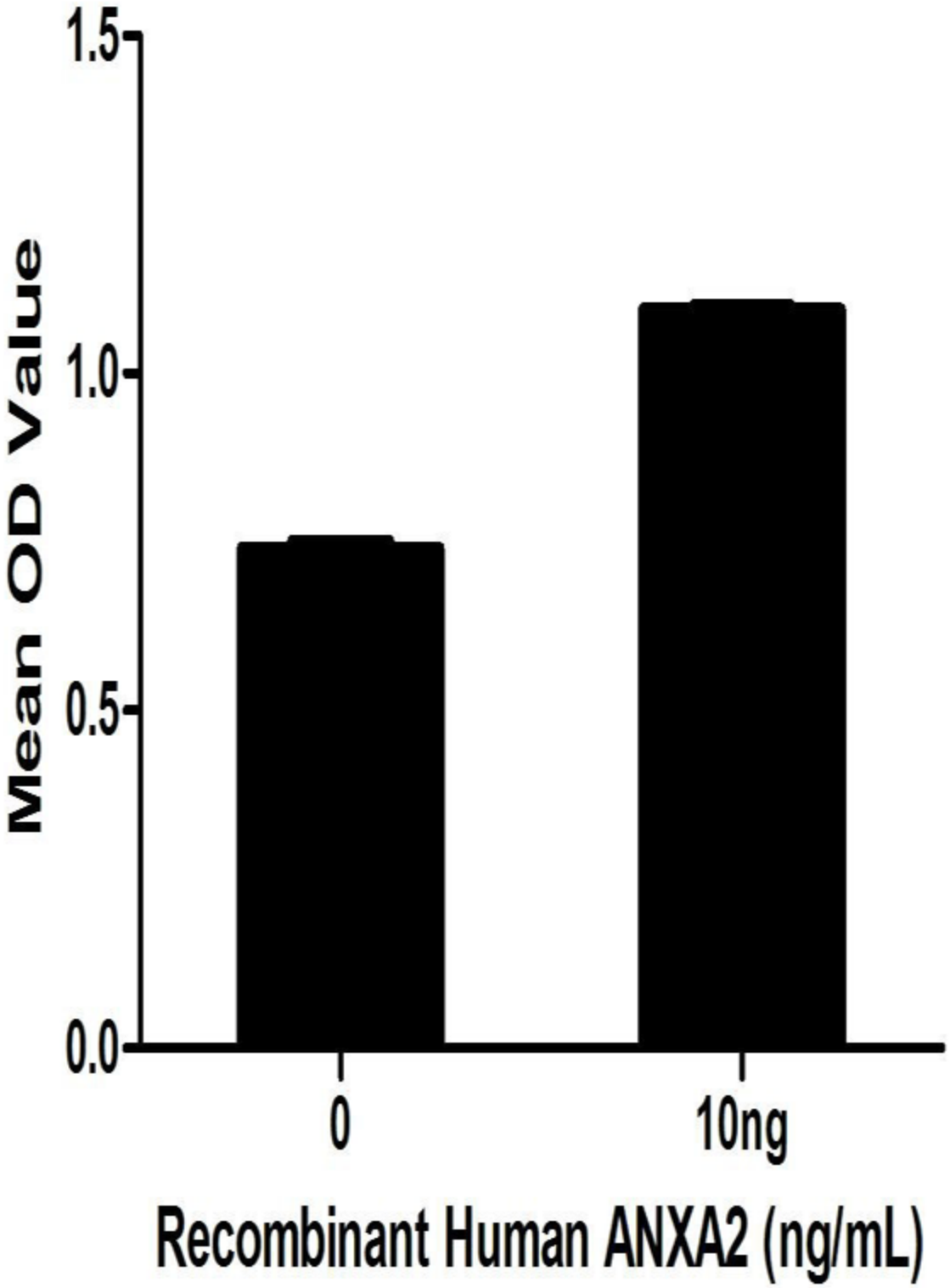

1.5
1.0
0.5
0.0
Mean OD Value
0
10ng
Recombinant Human ANXA2 (ng/mL)

Figure. Cell proliferation of Hela cells after stimulated with ANXA2.

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

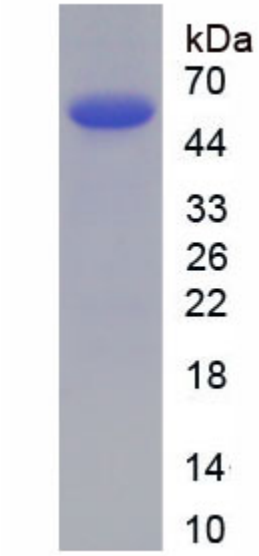


Figure. SDS-PAGE

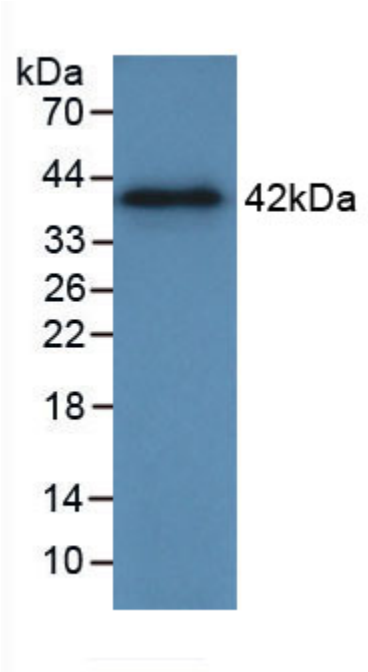


Figure. Western Blot

[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.