

APF879Hu01 100µg
Active Secreted Frizzled Related Protein 2 (SFRP2)
Organism Species: *Homo sapiens* (Human)
Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Leu25~Cys295

Tags: N-terminal His-tag

Purity: >90%

Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).

Buffer Formulation: PBS, pH7.4, containing 0.01% Sarcosyl, 5%Trehalose .

Original Concentration: 200µg/mL

Applications: Cell culture; Activity Assays.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 7.2

Predicted Molecular Mass: 34.8kDa

Accurate Molecular Mass: 35kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: 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.

[SEQUENCE]

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LFLFGQPDFSYKRSNCKPIPANLQLCHGIEYQNMRLPNLLGHETMKEVLEQAGAWIPLVMKQCHPDTKK  
FLCSLFAFVCLDDLDETIQPCSLCVQVKDRCAPVMSAFGFPWPDMLECDRFPQDNDLCIPLASSDHL  
PATEEAPKVCEACKNKNDNDNDIMETLCKNDFALKIKVKEITYINRDTKIILETKSKTIYKLNGVSE  
RKSVLWLKDSLQCTCEEMNDINAPYLVMGQKQGGEVITSVKRWQKGQREFKRISRSIRKLQC
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[ACTIVITY]

Secreted Frizzled-Related Protein 2 (SFRP2) is a key member of the SFRP family of extracellular signaling molecules. By inhibiting the Wnt/ β -catenin pathway, SFRP2 plays a crucial role in regulating fundamental cellular processes. Its primary functions include the suppression of cellular proliferation and the induction of apoptosis. To test the effect of SFRP2 on cell proliferation, A549 cells were seeded into triplicate wells of 96-well plates and allowed to attach, replaced with various concentrations of recombinant human SFRP2. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CKK-8). Briefly, 10 μ l of CKK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37 °C. Cell viability was assessed by CKK-8 assay after incubation with recombinant human SFRP2 for 72h. The result was shown in Figure 1. It was obvious that SFRP2 significantly increased cell viability of A549 cells. The ED50 of recombinant human SFRP2 is 1.655 μ g/ml.

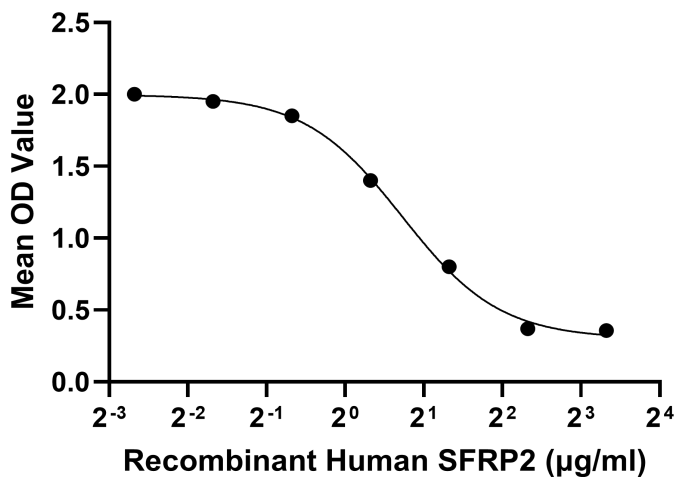


Figure.1 The dose-effect curve of recombinant human SFRP2 on A549 cells

[IDENTIFICATION]

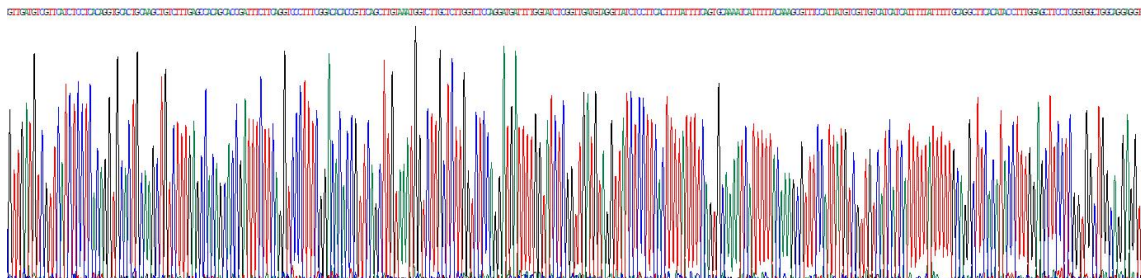


Figure 2. Gene Sequencing (extract)

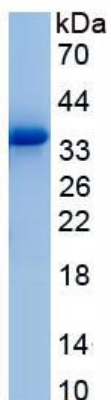


Figure 3. SDS-PAGE

Sample: Active recombinant SFRP2, 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.