

Active Fibroblast Growth Factor 3 (FGF3) Instruction Manual

SBPC313Hu01

Homo sapiens (Human)

Buffer Formulation

100mMNaHCO₃, 500mMNaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Traits

Freeze-dried powder

Purity

> 90%

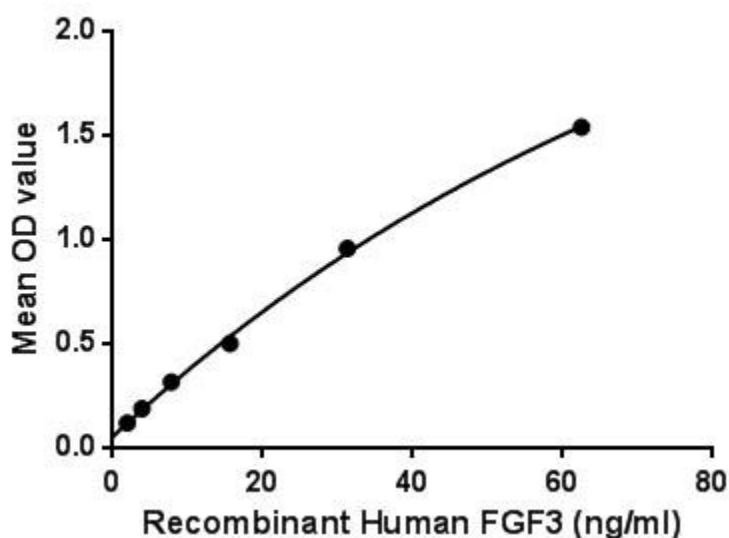
Isoelectric Point

11.0

Applications

Cell culture; Activity Assays.

ACTIVITY TEST



Fibroblast Growth Factor 3 (FGF3) also known as INT-2 proto-oncogene protein is a member of the fibroblast growth factor family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Besides, Fibroblast Growth Factor Receptor 2 (FGFR2) has been identified as an interactor of FGF3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF3 and recombinant human FGFR2. Briefly, FGF3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ L were then transferred to FGFR2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-Fibroblast Growth

Factor Receptor 2 (FGFR2) pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of FGF3 and FGFR2 was shown in Figure 1, and this effect was in a dose dependent manner.

Figure. The binding activity of FGF3 with FGFR2.

USAGE

Reconstitute in ddH₂O 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

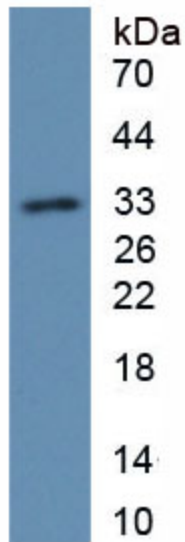


Figure. Western Blot

[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.