

APC913Hu01 10µg
Active Fibroblast Growth Factor 11 (FGF11)
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: Leu44~His212

Tags: N-terminal His-tag

Purity: >95%

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

Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.

Original Concentration: 600µg/mL

Applications: Cell culture; Activity Assays.

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

Predicted isoelectric point: 10.0

Predicted Molecular Mass: 22.8kDa

Accurate Molecular Mass: 23kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) 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]

LILLSKVRLCGGRPARPDRGPEPQLKGIVTKLFCRQGGFYLQANPDGSIQGTPEDTSSF
THFNLIPLVGLRVVTIQSAKLGHYMAMNAEGLLYSSPHFTAECRFKECVFENYYVLYA
SALYRQRRSGRAWYLGDKQVMKGNRVKKTAAAHLPLKLELVAMYQEPSLH

[ACTIVITY]

Fibroblast Growth Factor 11 (FGF11) is a member of the fibroblast growth factor (FGF) 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. The function of this gene has not yet been determined. Besides, Fibroblast Growth Factor Receptor 1 (FGFR1) has been identified as an interactor of FGF11, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF11 and recombinant human FGFR1. Briefly, FGF11 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µl then transferred to FGFR1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FGF11 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 FGF11 and FGFR1 was shown in Figure 1, and this effect was in a dose dependent manner.

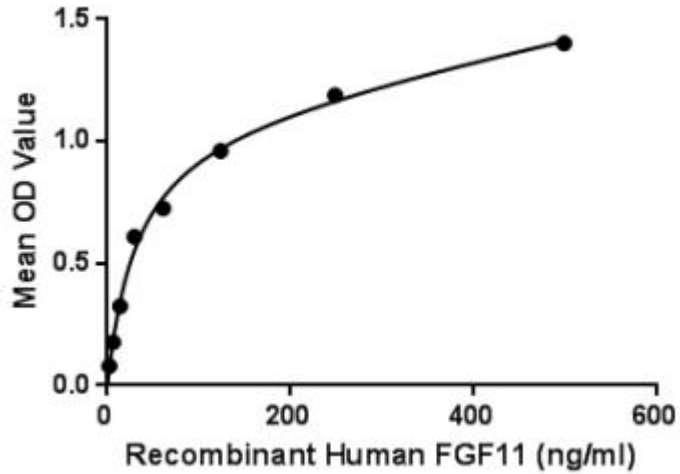


Figure 1. The binding activity of FGF11 with FGFR1

[IDENTIFICATION]

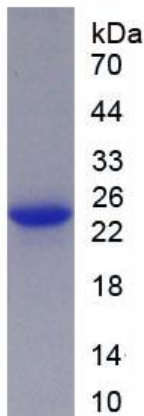


Figure2. SDS-PAGE

Sample: Active recombinant FGF11, 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.