APB882Hu01 10μg
Active Fibroblast Growth Factor 10 (FGF10)
Organism Species: *Homo sapiens (Human)*
Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Apr, 2016)

[PROPERTIES]

Source: Prokaryotic expression.
Host: *E. coli*
Residues: Gln38~Ser208
Tags: N-terminal His-tag
Purity: >92%
Endotoxin Level: <1.0EU per 1μg (determined by the LAL method).
Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl and 5% trehalose.
Original Concentration: 50μg/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: 23.1kDa
Accurate Molecular Mass: 23kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in ddH_2O to a concentration of 0.1-0.5 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.
Store at 2-8^oC for one month.
Aliquot and store at -80^oC 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 37ºC 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]

QAL GQDMVSPEAT
NSSSSSFSSP SSAGRHVRSY NHLQGDVRWR KLFSFTKYFL KIEKNGKVSG
TKKENCPYSI LEITSVEIGV VAVKAINSNY YLAMNKKGKL YGSKEFNNDC
KLKERIEENG YNTYASFNWQ HNGRQMYVAL NGKGAPRRGQ KTRRKNTSAH
FLPMVVHS

[ACTIVITY]

Fibroblast Growth Factor 10(FGF10)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. Besides, Fibroblast Growth Factor Receptor 2 (FGFR2) has been identified as an interactor of FGF10, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF10 and recombinant human FGFR2. Briefly, FGF10 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μl were then transferred to FGFR2-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-FGF10 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℃. Finally, add 50μl stop solution to the wells and read at 450nm immediately. The binding activity of FGF10 and FGFR2 was shown in Figure 1, and this effect was in a dose dependent manner.

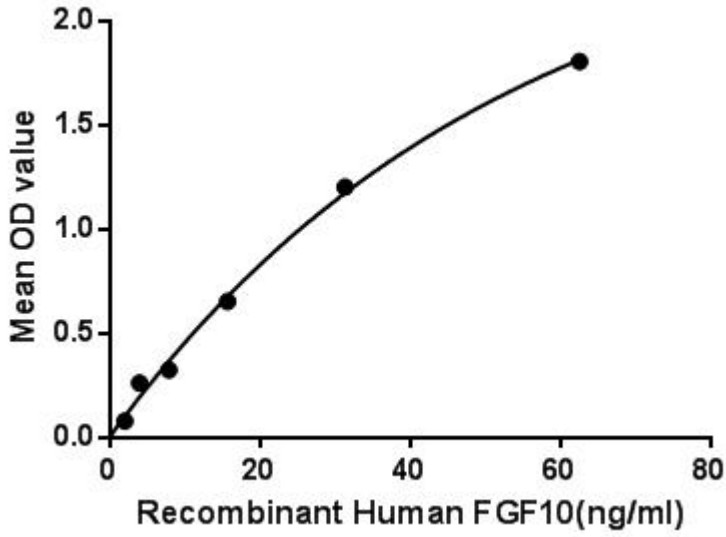

Figure 1. The binding activity of FGF10 with FGFR2

[IDENTIFICATION]

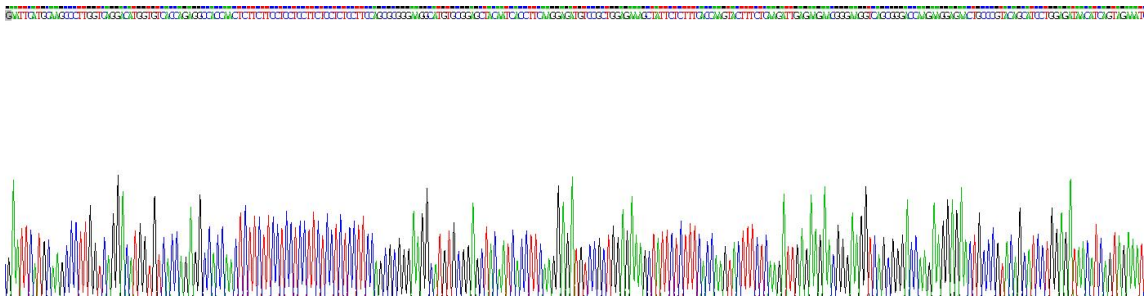

Figure2 . Gene Sequencing (extract)

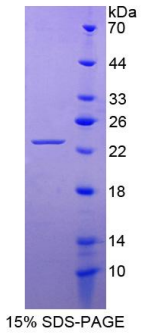

Figure 3. SDS-PAGE

Sample: Active recombinant FGF10,Human

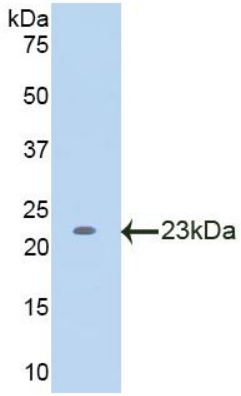

Figure 4. Western Blot

Sample: Recombinant FGF10,Human

Antibody: Rabbit Anti- FGF10,Human Ab (PAB882Hu01)

[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.