

APC906Hu01 100µg
Active Fibroblast Growth Factor 3 (FGF3)
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: Ala18~His239

Tags: N-terminal His-tag

Purity: >95%

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

Buffer Formulation: 100mM NaHCO₃, 500mM NaCl, pH8.3, containing 0.01% sarcosyl, 5%Trehalose.

Applications: Cell culture; Activity Assays.

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

Predicted isoelectric point: 11.0

Predicted Molecular Mass: 28.7kDa

Accurate Molecular Mass: 33kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in ddH₂O 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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AAG PGARLRRDAG GRGGVYEHLG GAPRRRKLYC
ATKYHLQLHP SGRVNGSLEN SAYSILEITA VEVGIVAIRG LFSGRYLAMN
KRGRLYASEH YSAECEFVER IHELGYNTYA SRLYRTVSST PGARRQPSAE
RLWYVSVNGK GRPRRGFKTR RTQKSSFLP RVLDRDHEM VRQLQSGLPR
PPGKGVQPRR RRQKQSPDNL EPSHVQASRL GSQLEASAH
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[ACTIVITY]

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 100µL 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.

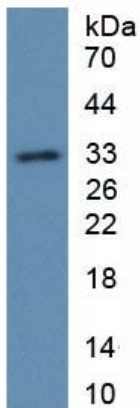


Figure 4. Western Blot

Sample: Recombinant FGF3, Human;

Antibody: Rabbit Anti-Human FGF3 Ab (PAC906Hu01)

[IMPORTANT NOTE]

The kit is designed for in vitro and research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.