

APB802Hu02 50µg

Active Interleukin 32 (IL32)

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: Met1~Lys131

Tags: N-terminal His and GST Tag

Purity: >80%

Endotoxin Level: <1.0EU per 1μg (determined by the LAL method). **Buffer Formulation:** PBS, pH7.4, containing 0.01% SKL, 5%Trehalose.

Original Concentration: 800µg/mL

Applications: Cell culture; Activity Assays.

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

Predicted isoelectric point: 4.5

Predicted Molecular Mass: 44.9kDa

Accurate Molecular Mass: 45kDa 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.

Cloud-Clone Corp.
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]

 ${\tt MCFPKVLSDDMKKLKARMHQAIERFYDKMQNAESGRGQVMSSLAELEDDFKEGYLETVAAYYEEQHPELTPLLEKERDGLRCRGNRSPV\\ {\tt PDVEDPATEEPGESFCDKSYGAPRGDKEELTPOKCSEPQSSK}$

[ACTIVITY]

Interleukin-32 (IL-32) is an interleukin cytokine usually linked to inflammation. The IL-32 transcript is expressed in various human tissues and organs such as the spleen, thymus, leukocyte, lung, small intestine, colon, prostate, heart, placenta, liver, muscle, kidney, pancreas, and brain. Cytokines are critical components of cell signaling pathways that are involved in the regulation of cell growth. metabolism, hormone signaling, immune regulation and a variety of other physiological functions. FGFR1 has been identified as an interactor of IL-32, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human IL-32 and recombinant human FGFR1. Briefly, IL-32 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µ I were then transferred to FGFR1-coated microtiter wells and incubated for 1h at 37 ℃. Wells were washed with PBST and incubated for 1h with anti-IL-32 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 °C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 °C. Finally, add 50 µL stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant human IL-32 and recombinant human FGFR1 was shown in Figure 1, the EC50 for this effect is 0.15 ug/mL.



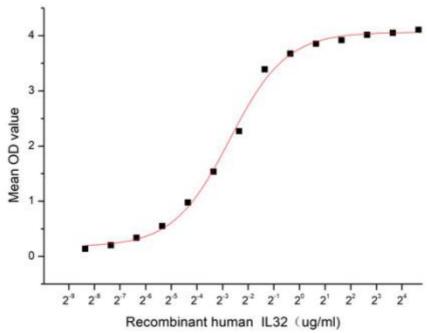


Figure 1. The binding activity of recombinant human IL-32 and recombinant human FGFR1

[IDENTIFICATION]

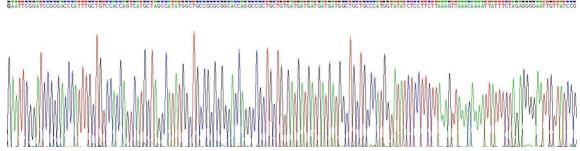


Figure 2. Gene Sequencing (extract)

<u> Cloud-Clone Corp.</u>

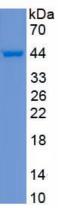


Figure 3. SDS-PAGE

Sample: Active recombinant IL32, 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.