

## Rat Fibroblast Growth Factor 21 (FGF21) CLIA Kit | FGF21 clia kit

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CATALOG #  
**AAA130510**

REACTIVITY  
**Rat**

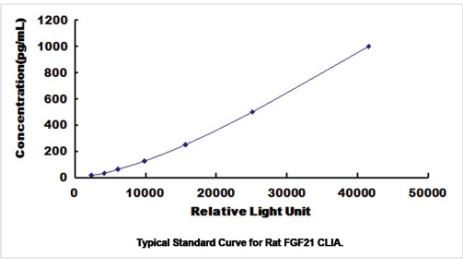
### PRODUCT SYNONYMS

Fibroblast Growth Factor 21 (FGF21); Rat Fibroblast Growth Factor 21 (FGF21) CLIA Kit; FGF21 clia kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of Fibroblast Growth Factor 21 (FGF21). No significant cross-reactivity or interference between Fibroblast Growth Factor 21 (FGF21) and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence Length         | 209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Samples                 | Serum, plasma and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Detection Range         | 1.37-1000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sensitivity             | The minimum detectable dose of this kit is typically less than 0.63pg/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Precision               | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Fibroblast Growth Factor 21 (FGF21) were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Fibroblast Growth Factor 21 (FGF21) were tested on 3 different plates, 8 replicates in each plate.<br>$CV(\%) = SD/mean \times 100$<br>Intra-Assay: $CV < 10\%$<br>Inter-Assay: $CV < 12\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Assay Procedure Summary | <ol style="list-style-type: none"> <li>1. Prepare all reagents, samples and standards;</li> <li>2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C;</li> <li>3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C;</li> <li>4. Aspirate and wash 3 times;</li> <li>5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C;</li> <li>6. Aspirate and wash 5 times;</li> <li>7. Add 100uL Substrate Solution. Incubate 10 minutes at 37 degree C;</li> <li>8. Read RLU value immediately.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage | <p>For unopened kit: All the reagents should be kept according to the labels on vials. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 degree C upon receipt while the others should be at 4 degree C.</p> <p>For opened kit: When the kit is opened, the remaining reagents still need to be stored according to the above storage condition. Besides, please return the unused wells to the foil pouch containing the desiccant pack, and reseal along entire edge of zip-seal.</p> <p>The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.</p> |

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for FGF21 clia kit | Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antigen. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated secondary antibody. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Fibroblast Growth Factor 21 (FGF21) level in the sample or standard. |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|-----------------------------|
| NCBI GI #                        | 9506597                     |
| NCBI GeneID                      | 26291                       |
| NCBI Accession #                 | NP_061986.1                 |
| NCBI GenBank Nucleotide #        | NM_019113.2                 |
| UniProt Accession #              | Q9NSA1; Q8N683              |
| Molecular Weight                 | 22,300 Da                   |
| NCBI Official Full Name          | fibroblast growth factor 21 |
| NCBI Official Synonym Full Names | fibroblast growth factor 21 |
| NCBI Official Symbol             | FGF21                       |
| NCBI Protein Information         | fibroblast growth factor 21 |
| UniProt Protein Name             | Fibroblast growth factor 21 |
| UniProt Gene Name                | FGF21                       |
| UniProt Synonym Gene Names       | FGF-21                      |
| UniProt Entry Name               | FGF21_HUMAN                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/rat-clia-kits/fibroblast-growth-factor-21-fgf21/130510>