

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

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CATALOG # AAA188455	REACTIVITY Rat	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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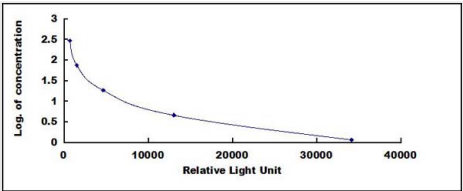
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

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	208
Assay Type	Competitive Inhibition
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.17-300pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.43pg/mL
Applicable Applications for FGF21 clia kit	CLIA (Chemiluminescence Immunoassay)
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. 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. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with a monoclonal antibody specific to Fibroblast Growth Factor 21 (FGF21). A competitive inhibition reaction is launched between biotin labeled Fibroblast Growth Factor 21 (FGF21) and unlabeled Fibroblast Growth Factor 21 (FGF21) (Standards or samples) with the pre-coated antibody specific to Fibroblast Growth Factor 21 (FGF21). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Fibroblast Growth Factor 21 (FGF21) in the sample. 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 reverse proportional to the Fibroblast Growth Factor 21 (FGF21) level in the sample or standard.
Preparation and Storage	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. 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.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	18543365
NCBI GeneID	170580
NCBI Accession #	NP_570108.1
NCBI GenBank Nucleotide #	NP_570108.1
UniProt Accession #	Q8VI80
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
UniProt Gene Name	Fgf21
UniProt Synonym Gene Names	FGF

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
Online datasheet: <https://stage.aaabiotech.com/rat-clia-kits/fibroblast-growth-factor-21-fgf21/188455>