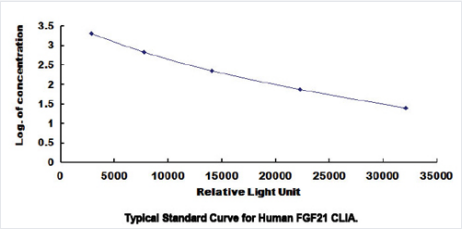
Fibroblast Growth Factor 21 (FGF21) CLIA Kit for Human

PRODUCT OVERVIEW

Product Name	Fibroblast Growth Factor 21 (FGF21), CLIA Kit
Full Product Name	Human Fibroblast Growth Factor 21 (FGF21) CLIA Kit
Product Gene Name	FGF21 clia kit
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	2.74-2,000pg/mL
Sensitivity	1.49pg/mL
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.
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.
Molecular Weight	22,300 Da
OMIM	609436
3D Structure	ModBase 3D Structure for Q9NSA1
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Chemiluminescent immunoassay for Antigen Detection.
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%
Product Categories/Family for FGF21 clia kit	Cytokine
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Related Product Information for FGF21 clia kit	The microplate provided in this kit has been pre-coated with an antibody specific to Fibroblast Growth Factor 21 (FGF21). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Fibroblast Growth Factor 21 (FGF21). 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.;

Other Notes	Small volumes of FGF21 clia kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FGF21 purchase	MBS2001209 is a CLIA kit targeting FGF21. Also known as Human Fibroblast Growth Factor 21 (FGF21) CLIA Kit. Reactive in Human.



Typical Testing Data/Standard Curve (for reference only) of FGF21 clia kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF21. It may not necessarily be applicable to this product.

NCBI GI #	9506597
NCBI GeneID	26291
NCBI Accession #	NP_061986.1
UniProt Primary Accession #	Q9NSA1
UniProt Secondary Accession #	Q8N683
UniProt Related Accession #	Q9NSA1
GenBank Nucleotide #	NM_019113.2
NCBI Official Full Name	fibroblast growth factor 21
NCBI Official Synonym Full Names	fibroblast growth factor 21
NCBI Official Symbol	FGF21
UniProt Protein Name	Fibroblast growth factor 21
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF21
UniProt Synonym Gene Names	FGF-21
UniProt Entry Name	FGF21_HUMAN
NCBI Protein Information	fibroblast growth factor 21
NCBI Summary for FGF21	The protein encoded by this gene 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. The function of this growth factor has not yet been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for FGF21	FGF21: Stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression). Activity requires the presence of KLB. Belongs to the heparin-binding growth factors family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 19q13.33 Cellular Component: extracellular region Molecular Function: protein binding; growth factor activity; fibroblast growth factor receptor binding Biological Process: positive regulation of glucose import; cell-cell signaling; positive regulation of cell proliferation; positive regulation of low-density lipoprotein receptor biosynthetic process; signal transduction
Research Articles on FGF21	**1.** Elevated serum FGF21 levels may be a useful biomarker for predicting kidney disease progression, especially in the early stages of diabetic nephropathy.
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