

Human Fibroblast growth factor 21 (FGF-21) ELISA Kit | FGF-21 elisa kit

Fibroblast growth factor 21 (FGF-21): Human (ELISA)

CATALOG #
AAA60542

REACTIVITY
Human

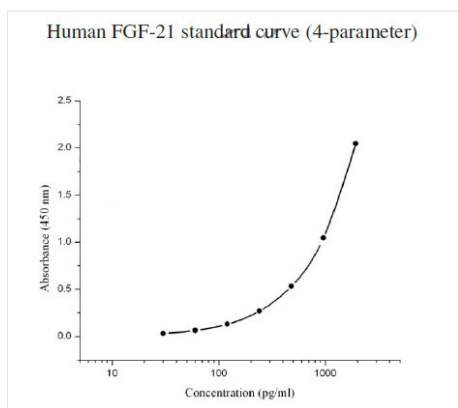
PRODUCT SYNONYMS

Fibroblast growth factor 21 (FGF-21); Fibroblast growth factor 21 (FGF-21): Human (ELISA); Human FGF-21; FGF-21 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Cross Reactivity of recombinant proteins
Sequence Length	209
Samples	Serum, plasma and cell culture supernate samples
Assay Type	Quantitative Sandwich
Sensitivity	30 pg/ml
Intra-assay Precision	Two samples of known concentration were tested 12 times on one plate.
Inter-assay Precision	Two samples of known concentration were tested in 10 separate assays.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FGF-21 elisa kit	Intended Uses: This human FGF-21 ELISA kit is designed for quantification of human FGF- 21 in serum, plasma and cell culture supernate samples. Principle of the Assay: This assay is a quantitative sandwich ELISA. The immunoplate is pre-coated with a rabbit polyclonal antibody specific for human FGF-21. Standards and samples are pipetted into the wells and any human FGF-21 present is bound by the immobilized antibody. After washing away any unbound substances, a biotin labelled polyclonal antibody specific for human FGF-21 is added to the wells. After wash step to remove any unbound reagents, streptavidin-HRP conjugate (STP-HRP) is added. After the last wash step, an HRP substrate solution is added and colour develops in proportion to the amount of human FGF-21 bound initially. The assay is stopped and the optical density of the wells determined using a microplate reader. Since the increases in absorbance are directly proportional to the amount of captured human FGF-21, the unknown sample concentration can be interpolated from a reference curve included in each assay. Background/Introduction: Fibroblast growth factor 21 (FGF-21) is a novel protein that has been implicated in the regulation of lipid and glucose metabolism under fasting and ketotic conditions[1,2]. In murine models, FGF-21 is predominantly expressed in liver, but it also expressed in adipose tissue and pancreatic beta-cells[3,4]. FGF- 21 stimulates glucose uptake in adipocytes. It also protects animals from dietinduced obesity when overexpressed in transgenic mice and lowers blood glucose and triglyceride levels when administered to diabetic rodents[5]. When administered daily for 6 weeks to diabetic rhesus monkeys, FGF-21 caused a dramatic decline in fasting plasma glucose, fructosamine, triglycerides, insulin, and glucagon[6]. Furthermore, elevated plasma FGF-21 concentrations in humans appear to be related to the presence of hepatic and peripheral insulin resistance[7].
References	1. Stressed Liver and Muscle Call on Adipocytes with FGF21. Luo Y, McKeethan WL. Front Endocrinol 2013 18;4:194 2. Fibroblast growth factor 21 as an emerging metabolic regulator: clinical perspectives. Woo YC, Xu A, Wang Y, Lam KS. Clin Endocrinol (Oxf). 2013 Apr;78(4):489-96

NCBI AND UNIPROT INFORMATION

NCBI GI #	426389482
NCBI GeneID	101149990
NCBI GenBank Nucleotide #	XP_004061150.1
NCBI Official Full Name	fibroblast growth factor 21
NCBI Official Symbol	FGF21
NCBI Protein Information	fibroblast growth factor 21

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/fibroblast-growth-factor-21-fgf-21/60542>