

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

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

CATALOG #
AAA60551

REACTIVITY
Mouse

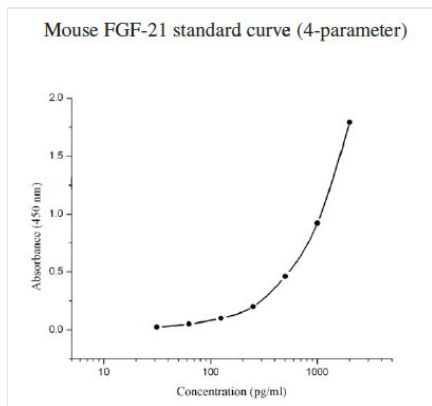
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The lowest level of mouse FGF-21 that can be detected by this assay is 31.2 pg/ml.
Sequence Length	209
Samples	Serum, plasma and cell culture supernate samples
Assay Type	Quantitative Sandwich
Intra-assay Precision	C.V <8%.
Inter-assay Precision	C.V <10%.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FGF-21 elisa kit	Intended Uses: This mouse FGF-21 ELISA kit is designed for quantification of mouse FGF-21 in serum, plasma and cell culture samples. Principle of the Assay: This assay is a quantitative sandwich ELISA. The immunoplate is precoated with a rabbit polyclonal antibody specific for mouse FGF-21. Standards and samples are pipetted into the wells and any mouse FGF-21 present is bound by the immobilized antibody. After washing away any unbound substances, a biotin labelled polyclonal antibody specific for mouse 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 mouse 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 mouse 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 - cells^{3,4}. FGF-21 stimulates glucose uptake in adipocytes. It also protects animals from diet-induced obesity when overexpressed in transgenic mice and lowers blood glucose and triglyceride levels when administered to diabetic rodents⁵. When administered daily for 6 weeks to diabetic rhesus monkeys, FGF-21 caused a dramatic decline in fasting plasma glucose, fructosamine, triglycerides, insulin, and glucagon⁶. Furthermore, elevated plasma FGF-21 concentrations in humans appear to be related to the presence of hepatic and peripheral insulin resistance⁷.
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.