

Mouse FGF21 PicoKine ELISA Kit | Fgf21 elisa kit

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CATALOG #
AAA46126

REACTIVITY
Mouse

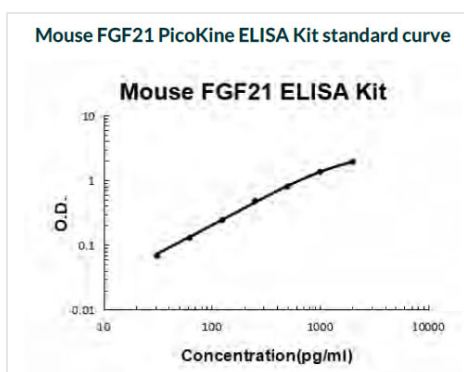
PRODUCT SYNONYMS

FGF21 PicoKine; Mouse FGF21 PicoKine ELISA Kit; Fibroblast growth factor 21; FGF 21; FGF-21; Fgf21; FGF21_HUMAN; fibroblast growth factor 21; Fgf21 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Fgf21
Sequence Length	210
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Fgf21 elisa kit	Background: Fibroblast growth factor 21 is a protein that in humans is encoded by the FGF21 gene. By genomic sequence analysis, Nishimura et al. (2000) identified the FGF21 gene within the 5-prime flanking region of the FUT1 gene on chromosome 19. 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. FGF21 stimulates glucose uptake in adipocytes but not in other cell types. This effect is additive to the activity of insulin. FGF21 treatment of adipocytes is associated with phosphorylation of FRS2, a protein linking FGF receptors to the Ras/MAP kinase pathway. FGF21 injection in ob/ob mice results in an increase in Glut1 in adipose tissue. FGF21 also protects animals from diet-induced obesity when overexpressed in transgenic mice and lowers blood glucose and triglyceride levels when administered to diabetic rodents. Principle of the Assay: The Picokine™ Mouse Fgf21 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Fgf21 with a 96-well strip plate that is pre-coated with antibody specific for Fgf21. The detection antibody is a biotinylated antibody specific for Fgf21. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit includes Mouse Fgf21 protein as standards. To measure Mouse Fgf21, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Fgf21 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Fgf21 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9910218
NCBI GeneID	56636
NCBI Accession #	NP_064397.1
NCBI GenBank Nucleotide #	NM_020013.4
UniProt Accession #	Q9JJN1
Molecular Weight	23,237 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_MOUSE

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.