

Rat FGFBP1 ELISA Kit | FGFBP1 elisa kit

Rat FGFBP1 PicoKine ELISA Kit

CATALOG #
AAA125018

REACTIVITY
Rat

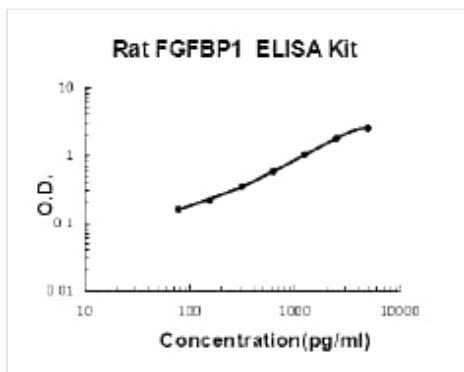
PRODUCT SYNONYMS

FGFBP1; Rat FGFBP1 PicoKine ELISA Kit; Rat FGFBP1; FGFBP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant Rat Fgf23
Sequence Length	234
Samples	Cell Culture Supernates, Serum And Plasma (Heparin, Edta)
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/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 accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for FGFBP1 elisa kit	Principle of the Assay: The Picokine Rat Fgf23 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat Fgf23 with a 96-well strip plate that is pre-coated with antibody specific for Fgf23. The detection antibody is a biotinylated antibody specific for Fgf23. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Rat Fgf23 with immunogen: Expression system for standard: E.coli, Immunogen sequence: Y25-V251. The kit is analytically validated with ready to use reagents. To measure Rat Fgf23, 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 substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Rat Fgf23 in the sample. Read the density 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 Rat Fgf23 in the sample!!Background/Introduction: Fibroblast growth factor 23 or FGF23 is a protein that in humans is encoded by the FGF23 gene. It is a member of the fibroblast growth factor (FGF) family which is responsible for phosphate metabolism. The main function of FGF23 seems to be regulation of phosphate concentration in plasma. FGF23 is secreted by Osteocytes in response to elevated Calcitriol. And it acts on the kidneys, where it decreases the expression of NPT2, a sodium-phosphate cotransporter in the proximal tubule. Thus, FGF23 decreases the reabsorption and increases excretion of phosphate. Also, FGF23 may suppress 1-alpha-hydroxylase, reducing its ability to activate vitamin D and subsequently impairing calcium absorption.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826754
NCBI GeneID	9982
NCBI Accession #	NP_005121.1
NCBI GenBank Nucleotide #	NM_005130.4
UniProt Accession #	Q14512
NCBI Official Full Name	fibroblast growth factor-binding protein 1
NCBI Official Synonym Full Names	fibroblast growth factor binding protein 1
NCBI Official Symbol	FGFBP1
NCBI Official Synonym Symbols	FGFBP; HBP17; FGF-BP; FGF-BP1; FGFBP-1
NCBI Protein Information	fibroblast growth factor-binding protein 1

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.