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FGF23 ELISA Kit



Overview

Quantity:	1 kit
Target:	FGF23
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: ADHR, FGF-23, Fgf23, FGF23_HUMAN, FGFN, Fibroblast growth factor 23,
	Fibroblast growth factor 23 C-terminal peptide, Fibroblast growth factor 23 precursor, HPDR2,
	HYPF, Phosphatonin, PHPTC, Tumor derived hypophosphatemia inducing factor, Tumor-
	derived hypophosphatemia-inducing factor
	Background: 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 sodiumphosphate 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.

Gene Name: FGF23

Production: Natural and recombinant mouse FGF23. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: Y25-V251

Target Details

Target:	FGF23
Alternative Name:	FGF23 (FGF23 Products)
Gene ID:	64654
NCBI Accession:	NP_073148
UniProt:	Q9EPC2
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Negative Regulation of Hormone Secretion

Application Details	
Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot
	0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL,
	15.6pg/mL mouse FGF23 standard solutions into the precoated 96-well plate. Add 0.1 mL of
	the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted
	sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well.
	It is recommended that each mouse FGF23 standard solution and each sample be measured in
	duplicate.
	Blood Product Anticoagulant: Heparin Sodium
	ELISA Dilution: 15.6pg/mL-1000pg/mL
Sample Volume:	100 μL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at
	room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only
	prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid
	cycles of freezing and thawing.