FGF23 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FGF23, Polyclonal Antibody
Full Product Name	FGF23 Conjugated Antibody
Product Gene Name	anti-FGF23 antibody
Product Synonym Names	Fibroblast growth factor 23; FGF-23; Tumor-derived hypophosphatemia-inducing factor; HYPF
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total FGF23 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	27,954 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (4477393..4488894, complement). Location: 12p13.3
OMIM	193100
3D Structure	ModBase 3D Structure for Q9GZV9
Immunogen	Synthesized peptide derived from internal of human FGF23.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-FGF23 antibody	Most Applications
Application Notes for anti-FGF23 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-FGF23 antibody	Regulator of phosphate homeostasis. Inhibits renal tubular phosphate transport by reducing SLC34A1 levels. Upregulates EGR1 expression in the presence of KL by similarity. Acts directly on the parathyroid to decrease PTH secretion by similarity. Regulator of vitamin-D metabolism. Negatively regulates osteoblast differentiation and matrix mineralization.
Other Notes	Small volumes of anti-FGF23 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FGF23 purchase	MBS9445067 is an antibody targeting FGF23. Also known as FGF23 Conjugated Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF23. It may not necessarily be applicable to this product.

NCBI GI #	10190674
NCBI GeneID	8074
NCBI Accession #	NP_065689.1
UniProt Primary Accession #	Q9GZV9
UniProt Secondary Accession #	Q4V758
UniProt Related Accession #	Q9GZV9
GenBank Nucleotide #	NM_020638.2
NCBI Official Full Name	fibroblast growth factor 23
NCBI Official Synonym Full Names	fibroblast growth factor 23
NCBI Official Symbol	FGF23
NCBI Official Synonym Symbols	ADHR; FGFN; HYPF; HPDR2; PHPTC
UniProt Protein Name	Fibroblast growth factor 23
UniProt Synonym Protein Names	Phosphatonin; Tumor-derived hypophosphatemia-inducing factor
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF23
UniProt Synonym Gene Names	HYPF; FGF-23
UniProt Entry Name	FGF23_HUMAN
NCBI Protein Information	fibroblast growth factor 23; phosphatonin; tumor-derived hypophosphatemia inducing factor
NCBI Summary for FGF23	This gene encodes a member of the fibroblast growth factor family of proteins, which possess broad mitogenic and cell survival activities and are involved in a variety of biological processes. The product of this gene regulates phosphate homeostasis and transport in the kidney. The full-length, functional protein may be deactivated via cleavage into N-terminal and C-terminal chains. Mutation of this cleavage site causes autosomal dominant hypophosphatemic rickets (ADHR). Mutations in this gene are also associated with hyperphosphatemic familial tumoral calcinosis (HFTC). [provided by RefSeq, Feb 2013]

UniProt Comments for FGF23	FGF23: Regulator of phosphate homeostasis. Inhibits renal tubular phosphate transport by reducing SLC34A1 levels. Upregulates EGR1 expression in the presence of KL. Acts directly on the parathyroid to decrease PTH secretion. Regulator of vitamin-D metabolism. Negatively regulates osteoblast differentiation and matrix mineralization. Defects in FGF23 are the cause of autosomal dominant hypophosphataemic rickets (ADHR). ADHR is characterized by low serum phosphorus concentrations, rickets, osteomalacia, leg deformities, short stature, bone pain and dental abscesses. Defects in FGF23 are a cause of hyperphosphatemic familial tumoral calcinosis (HFTC). HFTC is a severe autosomal recessive metabolic disorder that manifests with hyperphosphatemia and massive calcium deposits in the skin and subcutaneous tissues. Belongs to the heparin-binding growth factors family. Protein type: Secreted; Cytokine; Secreted, signal peptide Chromosomal Location of Human Ortholog: 12p13.3 Cellular Component: extracellular space; extracellular region Molecular Function: growth factor activity; type 1 fibroblast growth factor receptor binding Biological Process: epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; nerve growth factor receptor signaling pathway; negative regulation of hormone secretion; positive regulation of transcription, DNA-dependent; phosphate metabolic process; negative regulation of bone mineralization; cellular phosphate ion homeostasis; insulin receptor signaling pathway; innate immune response; negative regulation of osteoblast differentiation; phosphate ion homeostasis; cell differentiation; vitamin D catabolic process Disease: Hypophosphatemic Rickets, Autosomal Dominant
Research Articles on FGF23	**1.** Residual renal function is associated with significant capacity to excrete phosphate in dialysis patients and high levels of serum FGF-23 may promote phosphate excretion by remnant nephrons.
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