



# Anti-Human FGF-23

20230213DS



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-P109</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits immunized with highly pure Recombinant Human FGF-23. Anti-Human FGF-23-specific antibody was purified by affinity chromatography employing an immobilized Human FGF-23 matrix.

## Target Background

<b>Synonyms (Target):</b>	FGF23; ADHR; HYPF; HPDR2; PHPTC ; fgf 23
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The FGF family plays a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-23, FGF-21 and FGF-19 constitute an atypical FGF subfamily whose ligands act as circulating hormones and require the participation of a Klotho protein as a co-receptor for their signaling. FGF-23 is a bone-derived hormone that acts in the kidney to regulate phosphate homeostasis and vitamin D metabolism. The signaling receptor for FGF-23, a Klotho-FGFR1 (IIIc) complex, is an essential regulator of the renal sodium phosphate co-transporter and key vitamin D-metabolizing enzymes CYP27B1 and CYP24A1.

### Database References Target

<b>Protein RefSeq:</b>	NP_065689.1
<b>Uniprot ID:</b>	Q9GZV9
<b>mRNA RefSeq:</b>	NM_020638

## Product Specifications

<b>Species reactivity</b>	Human
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant Human FGF-23
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

**Western Blot:** To detect Human FGF-23 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2µg/ml. When used in conjunction with compatible secondary reagents, the detection limit for Recombinant Human FGF-23 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

### ELISA:

**Sandwich:** To detect Human FGF-23 by sandwich ELISA (using 100µl/well), a concentration of 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with an appropriate secondary conjugated antibody, allows the detection of at least 0.2 - 0.4 ng/well of Recombinant Human FGF-23.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**