

# FGF-23

<b>Method:</b>	Immutopics ELISA Kit measures <b>Intact</b> or <b>C-terminal</b> FGF-23 in <b>Mouse</b> or <b>Human</b> Plasma (heparin).
<b>Vendor:</b>	<b>Immutopics</b> Inc. #60-6300, 60-6800, 60-6100, 60-6600. San Diego, CA USA.
<b>Description:</b>	<p>The FGF-23 (C-Term) ELISA Kit is a homologous, two-site enzyme-linked immunosorbent assay (ELISA) for the measurement of FGF-23 in plasma. Two affinity purified goat polyclonal antibodies have been selected to detect epitopes within the carboxyl-terminal (C-Term) region of FGF-23. One antibody is biotinylated for capture and the other antibody is conjugated with the enzyme horseradish peroxidase (HRP) for detection. For Intact FGF-23 measurements, the antibodies have been selected to detect epitopes within the amino-terminal and carboxylterminal regions of the protein, and the amino-terminal antibody is biotinylated for capture and the carboxyl-terminal antibody is conjugated with the enzyme horseradish peroxidase (HRP) for detection. A sample containing FGF-23 is incubated simultaneously with the biotinylated capture antibody and the HRP conjugated detection antibody in a streptavidin coated microtiter well. FGF-23 contained in the sample is immunologically bound by the capture antibody and the detection antibody to form a “sandwich” complex:</p> <p><i>Well/Avidin— Biotin Anti-FGF23 — FGF23 — HRP Anti-FGF23</i></p> <p>The enzyme antibody bound to the well is incubated with a substrate solution in a timed reaction and then measured in a spectrophotometric microtiter plate reader. A standard curve is generated by plotting the absorbance versus the respective FGF-23 concentration for each standard and the concentration of FGF-23 in the samples is determined directly from this curve.</p>

## Sample and Performance Characteristics

<b>Tube type:</b>	Samples should be frozen in tubes or 96-well plates (preferred).
<b>Sample Volume:</b>	Mouse, 30 ul; Human, 100 ul.
<b>Reference range:</b>	Mouse: 26 - 2,500 pg/mL Human: 17 - 1,400 pg/mL
<b>Notes:</b>	Contact Core to arrange sample submission and assay.

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