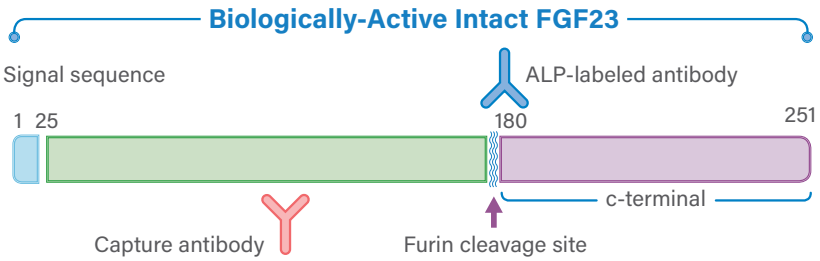
Hitachi Chemical
Working On Wonders

MedFrontier® FGF23 Intact

Intact Fibroblast Growth Factor 23

The better choice to measure the biologically active form of FGF23. The **MedFrontier® FGF23 Intact** assay kit is a reliable, reproducible, and accurate serum blood test delivering optimum results quickly.



ASSAY KEY FEATURES

- Measures intact FGF23, the full-length bioactive form of FGF23
- Superior dynamic range of 10-3000 pg/mL
- Excellent reproducibility, CVs below 5%
- Microtiter plate assay that every lab can perform
- CLEIA technology
- Only 20 µL serum needed

AREAS OF FGF23 RESEARCH*

Osteomalacia
Tumor-induced osteomalacia (TIO)

Kidney Disease
Chronic kidney disease (CKD), Acute kidney injury (AKI)

Rickets
X-linked hypophosphatemic rickets (XLH), Autosomal dominant hypophosphatemic rickets (ADHR)

Cardiovascular Disease
Left ventricular hypertrophy (LVH)

Vitamin D Metabolism
Control of $1,25(OH)_2$ vitamin D homeostasis

Mineral Bone Disease
Hyperphosphatemia, Iron deficiency

HITACHI

For Research Use Only. Not for use in diagnostic procedures.

*Reference: Myles Wolf et. al. Curr Opin Nephrol Hypertens. 2014 Jul; 23(4): 411–419

CHEMILUMINESCENCE ENZYME IMMUNOASSAY (CLEIA)

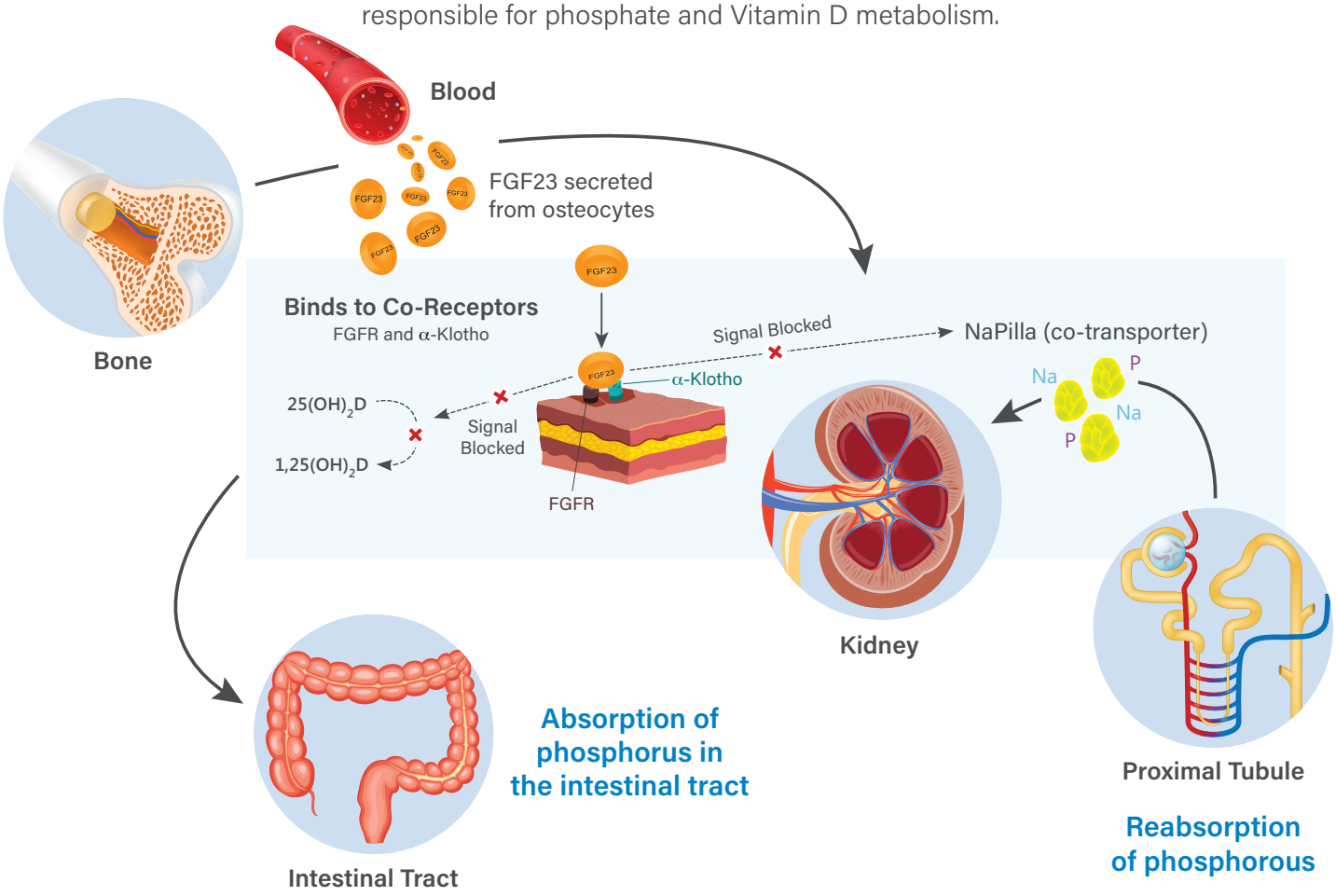
- CLEIA known for better sensitivity, specificity, reliability and reproducibility
- Serum intact FGF23 concentration determined using CLEIA
- Antibody-coated microtiter plate configuration for easy use
- Use of two mouse monoclonal antibodies measures only intact FGF23

ASSAY PERFORMANCE / ACCURACY & REPRODUCIBILITY

Intact FGF23 Concentration in Serum (pg/mL)	Expected Value (pg/mL)	Measured Value (pg/mL)	Accuracy (%)	Reproducibility (CV : N=10)
Low	22.8	22.7	99.6	3.1%
Medium	249.9	271.6	108.7	1.4%
High	1828.8	1946.3	106.4	2.4%

INTACT FGF23 AND VITAMIN D REGULATE PHOSPHATE HOMEOSTASIS

Intact FGF23 is the biologically active protein encoded by the FGF23 gene responsible for phosphate and Vitamin D metabolism.



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