soluble α-Klotho ELISA

Soluble α-Klotho has been widely studied in aging related disease research such as **Chronic Kidney Disease (CKD), Osteoporosis, Cardiovascular Disease and Alzheimer's Disease**. IBL's Human soluble α-Klotho detects **both full length (KL1+KL2) and KL1** is the mostly published and used by researchers.

Best Selling

➢ **#27998 Human soluble α-Klotho**
➢ **#27601 Mouse soluble α-Klotho**

Customer Feedback (USA)

*"This assay doesn't need any additional feedback, because most of published human α-Klotho data referred on it. It is an absolutely wonderful assay and **the best** in the market. "*
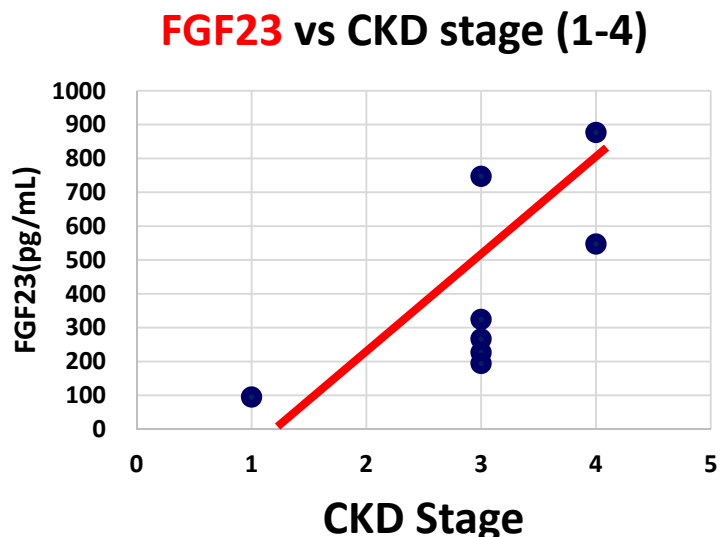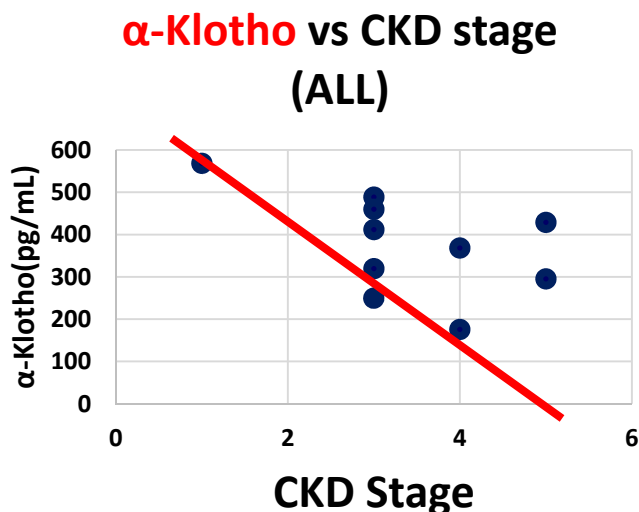**National Institute of Health (NIH)**

α-Klotho – Transmembrane **(TM)** protein / mainly expressed in <u>kidneys and parathyroid glands</u>.

130kDa

N — KL1 — KL2 — TM — Intercellular — C

Full Length

KL1 — KL2

KL1 — 70kDa

KL2
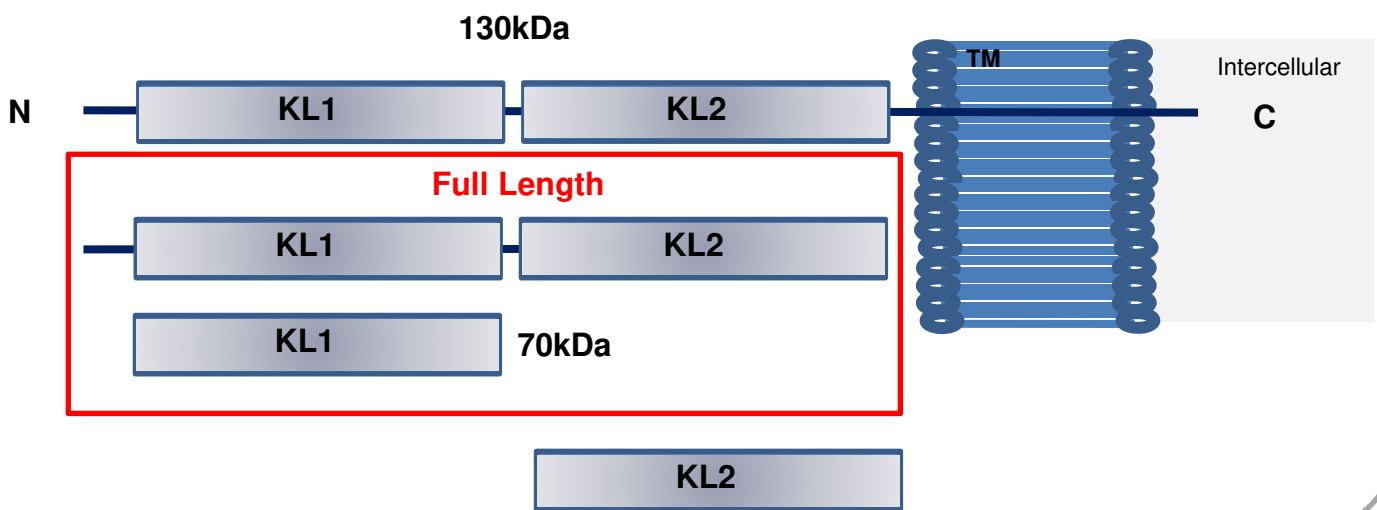
Negative Correlation (α-Klotho vs FGF23)
In CKD (Chronic Kidney Disease) Stage

Human EDTA-Plasma

α-Klotho vs CKD stage (ALL)

FGF23 vs CKD stage (1-4)

Data provided by Dr. Yuji Muraba, Cardiology, Hidaka Hospital

Measured level of each type of sample
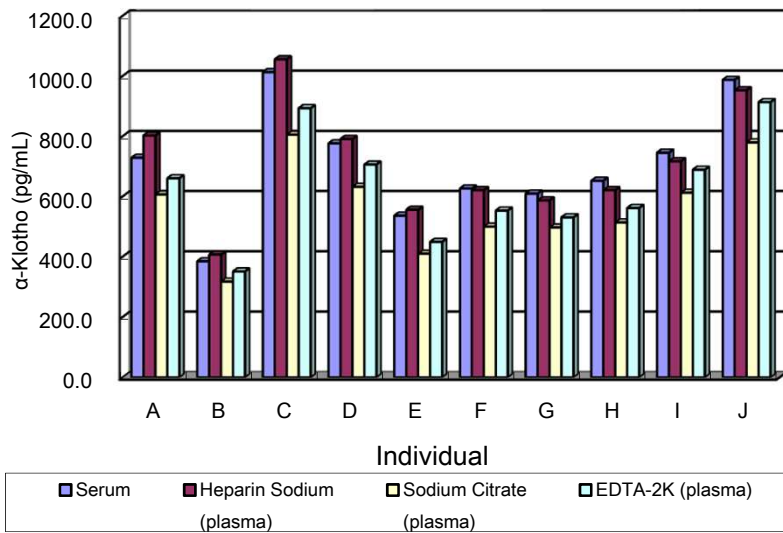
Package Size
96 Well ELISA

Sample
Serum, Plasma (EDTA, Heparin, Citrate),
Urine

Measurement Range
93.75 – 6,000 pg/mL

Sensitivity
6.15pg/mL

Assay Time
1hr (R.T.) + 30min (R.T.) + 30min (R.T.) = 2hr

Sample Stability

Frozen/Thaw test

Each sample was measured after frozen/thaw cycles, and the ratio (%) of measured value against the initial condition is shown in Table 1. Initial condition means samples right after thaw from previouslyfrozen state. They are not fresh samples.

Table 1	Sample					
Frozen/thaw	Serum1	Plasma1	Serum2	Plasma2	Urine A	Urine B
Initial Condition	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1st Time	99.2%	95.3%	93.0%	93.1%	93.6%	84.0%
2nd Time	91.3%	93.1%	91.4%	95.2%	88.9%	79.4%
3rd Time	92.5%	91.6%	92.4%	93.1%	71.2%	57.6%

37℃ Aacceleration test

Each sample was measured after incubation at 37 ℃, and the ratio (%) of measured value against the initial condition is shown in Table 2. Initial condition means samples in the condition of "1 time*" of "Frozen/Thaw test" mention above. They are not fresh samples.

Table 2	Sample					
Incubation Time	Serum1	Plasma1	Serum2	Plasma2	Urine A	Urine B
Initial Condition	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
3 hours	106.0%	109.2%	108.2%	109.1%	66.7%	34.6%
6 hours	86.0%	101.1%	94.3%	104.2%	36.4%	13.8%
Overnight	70.2%	78.7%	57.3%	86.8%	8.6%	0.0%

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