New Product Release!
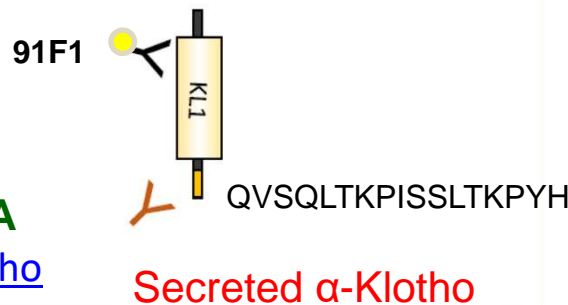
Specifically detect
Human secreted α-Klotho isoform

The α-Klotho gene was identified as a gene with extremely reduced expression in genetically mutated mice with a phenotype that closely resembles the diverse aging symptoms of humans.

The long N-terminal extracellular domain, which occupies most of the sequence of the α-Klotho protein, has been reported to be shedding and released in the blood, while secretory isoform with only first repeat by gene splicing (secreted α-Klotho) has been reported.
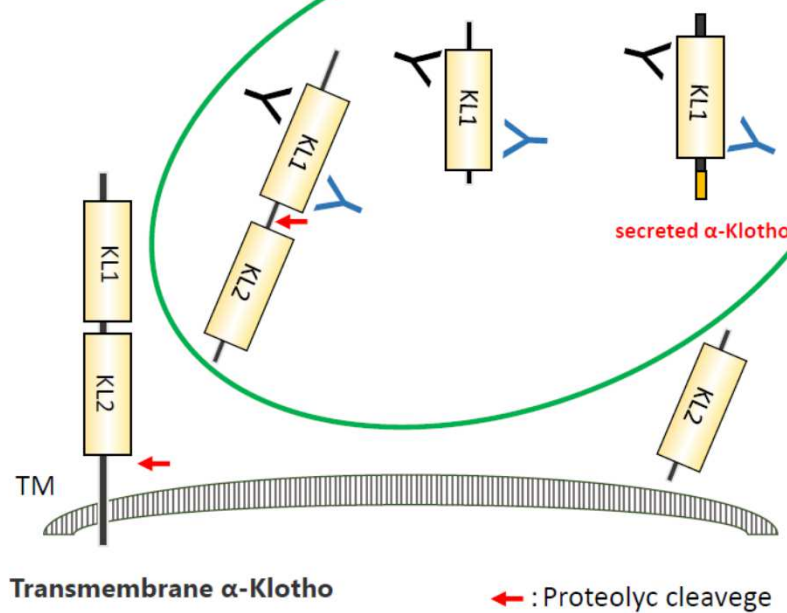
New!

#27901 Human secreted α–Klotho Assay Kit

91F1

QVSQLTKPISSLTKPYH

Secreted α-Klotho

➤ **soluble α-Klotho ELISA**
#27998 Human soluble α-Klotho
#27601 Mouse soluble α-Klotho

#27998 Human soluble α-Klotho Assay Kit - IBL
Measure all soluble α-Klotho has the KL1 domain

secreted α-Klotho

TM

Transmembrane α-Klotho

← : Proteolyc cleavege

This kit specifically measures human secreted isoforms (secreted α-Klotho) in human serum, EDTA-plasma and cerebrospinal fluid and does not react with soluble α-Klotho derived from transmembrane α-Klotho.

Since there are many unclear points regarding the function of secreted α-Klotho protein and its body fluids concentration, we hope the kit will contribute further research of secreted α-Klotho.

Aging, Neurodegenerative
Alzheimer's disease (AD) etc.

Kidney Diseases
CKD, AKI, IgA Nephropathy (IgAN), Hypertension, etc.

Inflammatory Diseases
Cancers, Arthritis, Hepatitis, etc.

Glucose / Lipid Metabolism
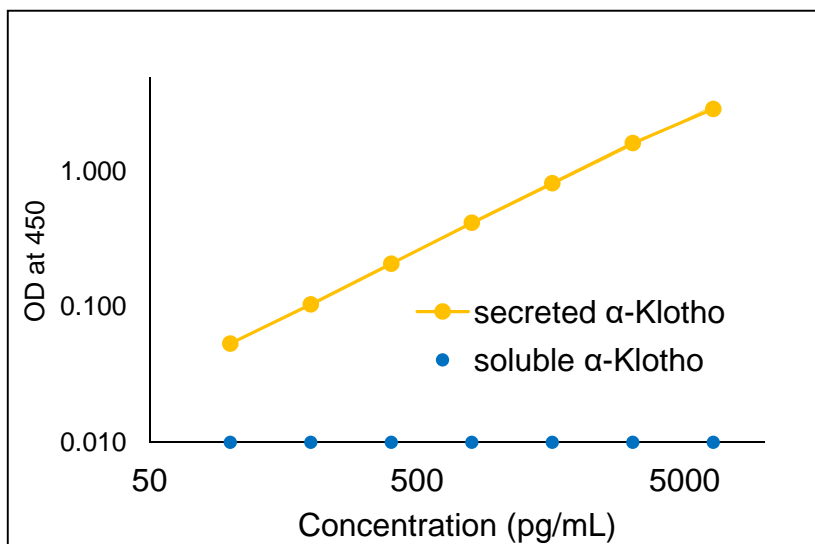Diabetes, Hyperlipidemia, Cardiovascular Events, etc.

The product cannot be used for diagnostic nor any medical purpose.

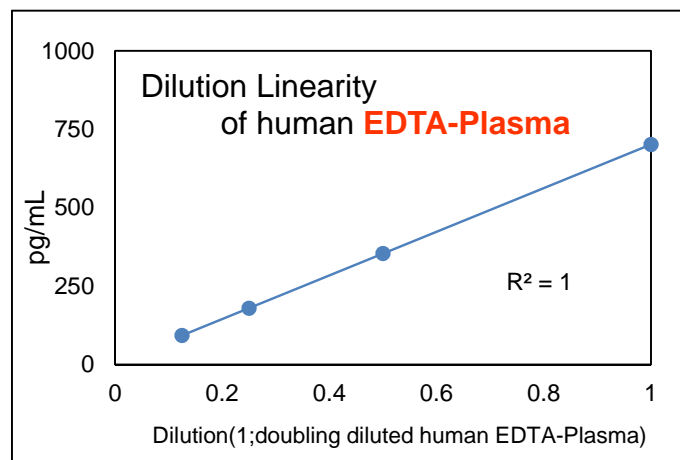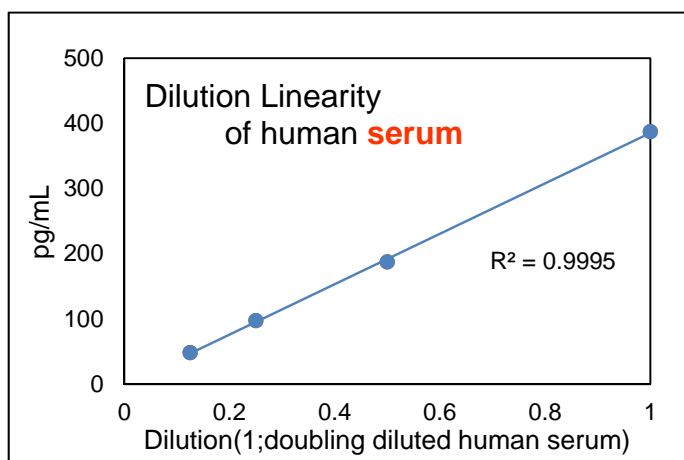## #27901 Human secreted α-Klotho Assay Kit

◆ Package Size	:	96 Well ELISA
◆ Sample Type	:	Serum, EDTA Plasma, CSF
◆ Measurement Range	:	70.31 - 4,500 pg/mL
◆ Sensitivity	:	9.87 pg/mL
◆ Sensitivity	:	Human secreted α-Klotho 100%
		Human β-Klotho ≦0.1%
		Human transmembrane α-Klotho Isoform ≦0.1%
◆ Assay Conditions	:	1st reaction 2～8℃ Overnight
		2nd reaction 2～8℃ 60min
		TMB solution r.t. 30min

Check the cross reactivity with soluble α-Klotho

STD(pg/mL)	secreted α-Klotho A450	soluble α-Klotho A450
6400	2.886	0.003
3200	1.615	0.003
1600	0.817	0.000
800	0.417	0.001
400	0.208	0.002
200	0.104	0.002
100	0.054	0.001

【Dilution Linearity】

Dilution Linearity of human **serum**
R² = 0.9995

Dilution Linearity of human **EDTA-Plasma**
R² = 1

Aging, Neurodegenerative
Alzheimer's disease (AD) etc.

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Cancers, Arthritis, Hepatitis, etc.

Glucose / Lipid Metabolism
Diabetes, Hyperlipidemia, Cardiovascular Events, etc.