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.

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.
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**: Human secreted α-Klotho 100%
  - Human β-Klotho ≤0.1%
  - Human transmembrane α-Klotho Isoform ≤0.1%
- **Assay Conditions**
  - 1st reaction: 2 ~ 8°C, Overnight
  - 2nd reaction: 2 ~ 8°C, 60min
  - TMB solution: r.t., 30min

**Check the cross reactivity with soluble α-Klotho**

<table>
<thead>
<tr>
<th>Concentration (pg/mL)</th>
<th>secreted α-Klotho</th>
<th>soluble α-Klotho</th>
</tr>
</thead>
<tbody>
<tr>
<td>6400</td>
<td>2.886</td>
<td>0.003</td>
</tr>
<tr>
<td>3200</td>
<td>1.615</td>
<td>0.003</td>
</tr>
<tr>
<td>1600</td>
<td>0.817</td>
<td>0.000</td>
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<tr>
<td>800</td>
<td>0.417</td>
<td>0.001</td>
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<tr>
<td>400</td>
<td>0.208</td>
<td>0.002</td>
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<tr>
<td>200</td>
<td>0.104</td>
<td>0.002</td>
</tr>
<tr>
<td>100</td>
<td>0.054</td>
<td>0.001</td>
</tr>
</tbody>
</table>

**Dilution Linearity**

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

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

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