

Datasheet for ABIN5510659

Klotho beta ELISA Kit**1** Image[Go to Product page](#)

Overview

| | |
|----------------------|-------------------|
| Quantity: | 96 tests |
| Target: | Klotho beta (KLB) |
| Binding Specificity: | AA 53-997 |
| Reactivity: | Human |
| Method Type: | Sandwich ELISA |
| Application: | ELISA |

Product Details

| | |
|-----------------------------|---|
| Purpose: | Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Klotho beta |
| Brand: | PicoKine™ |
| Analytical Method: | Quantitative |
| Detection Method: | Colorimetric |
| Specificity: | Expression system for standard: NSO, Immunogen sequence: F53-L997 |
| Cross-Reactivity (Details): | There is no detectable cross-reactivity with other relevant proteins. |

Target Details

| | |
|-------------------|--|
| Target: | Klotho beta (KLB) |
| Alternative Name: | KLB (KLB Products) |
| Background: | Protein Function: Contributes to the transcriptional repression of cholesterol 7-alpha-hydroxylase (CYP7A1), the rate-limiting enzyme in bile acid synthesis. Probably inactive as a |

Target Details

glycosidase. Increases the ability of FGFR1 and FGFR4 to bind FGF21 (By similarity). .

Background: Klotho beta, a divergent structural member of the glycosidase I superfamily, is expressed primarily in the liver and pancreas, with lower expression in adipose tissue. It is mapped to chromosome 4. The Klotho beta mediated interaction of human FGF19 (mouse FGF15) with FGF Receptor 4 in the liver negatively regulates bile acid synthesis by controlling the secretion of two key bile acid synthase genes, cholesterol 7-alpha hydroxylase (Cyp7a1) and sterol 12-alpha hydroxylase (Cyp8b1). Klotho beta is also an essential cofactor for FGF21 activity and the Klotho gene family may have evolved to confer tissue-specific bioactivity on FGF19 subfamily members.

Synonyms: Beta-klotho,BKL,BetaKlotho,Klotho beta-like protein,KLB,

Full Gene Name: Beta-klotho

Cellular Localisation: Cell membrane, Single-pass type III membrane protein.

UniProt: [Q86Z14](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Growth Factor Binding](#)

Application Details

Plate: Pre-coated

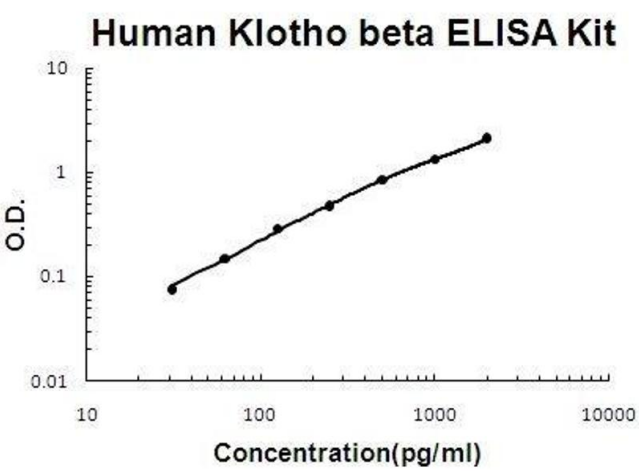
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Human Klotho beta PicoKine ELISA Kit standard curve