

Human Klotho beta ELISA Kit | KLB elisa kit

Human Klotho beta PicoKine ELISA Kit

CATALOG #
AAA46773

REACTIVITY
Human

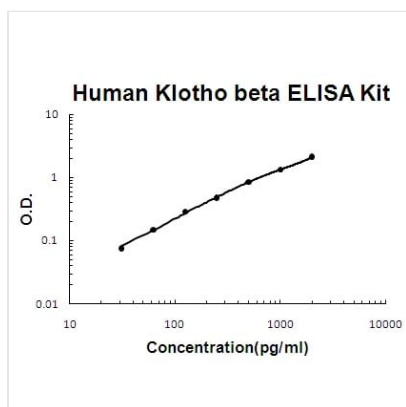
PRODUCT SYNONYMS

Klotho beta; Human Klotho beta PicoKine ELISA Kit; Beta-klotho; Betaklotho; BKL; KLB; Q86Z14; KLB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human Klotho beta
Sequence Length	1044
Samples	Cell culture supernates, cell lysates, tissue homogenates, serum and plasma (heparin, EDTA)
Assay Type	Quantitative Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

Human Klotho beta PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for KLB elisa kit	Principle of the Assay: The Human Klotho beta ELISA Kit was based on standard sandwich enzyme-linked immunesorbent assay technology. A monoclonal antibody from mouse specific for Klotho beta has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: F53-L997) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Klotho beta is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human Klotho beta amount of sample captured in plate. 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.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	28376633
NCBI GeneID	152831
NCBI Accession #	NP_783864.1
NCBI GenBank Nucleotide #	NM_175737.3
UniProt Accession #	Q86Z14; Q2M3K8
Molecular Weight	119,808 Da
NCBI Official Full Name	beta-klotho
NCBI Official Synonym Full Names	klotho beta
NCBI Official Symbol	KLB
NCBI Official Synonym Symbols	BKL
NCBI Protein Information	beta-klotho
UniProt Protein Name	Beta-klotho
UniProt Gene Name	KLB
UniProt Synonym Gene Names	BKL; BetaKlotho

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/klb-human-elisa-kits/klotho-beta/46773>