

Klotho / KL Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2884a

Specification

Klotho / KL Antibody (internal region) - Product Information

Application	E
Primary Accession	O9UEF7
Other Accession	NP_004786.2 , 9365
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	116181

Klotho / KL Antibody (internal region) - Additional Information

Gene ID 9365

Other Names

Klotho, 3.2.1.31, Klotho peptide, KL

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Klotho / KL Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Klotho / KL Antibody (internal region) - Protein Information

Name KL

Function

May have weak glycosidase activity towards glucuronylated steroids. However, it lacks essential active site Glu residues at positions 239 and 872, suggesting it may be inactive as a glycosidase in vivo. May be involved in the regulation of calcium and phosphorus homeostasis by inhibiting the synthesis of active vitamin D (By similarity). Essential factor for the specific interaction between FGF23 and FGFR1 (By similarity).

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Apical cell membrane

{ECO:0000250|UniProtKB:O35082}; Single-pass type I membrane protein
{ECO:0000250|UniProtKB:O35082}. Note=Isoform 1 shedding leads to a soluble peptide.
{ECO:0000250|UniProtKB:O35082} [Klotho peptide]: Secreted {ECO:0000250|UniProtKB:O35082}

Tissue Location

Present in cortical renal tubules (at protein level). Soluble peptide is present in serum and cerebrospinal fluid Expressed in kidney, placenta, small intestine and prostate. Down- regulated in renal cell carcinomas, hepatocellular carcinomas, and in chronic renal failure kidney.

Klotho / KL Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Klotho / KL Antibody (internal region) - Images**Klotho / KL Antibody (internal region) - References**

Insulin stimulates the cleavage and release of the extracellular domain of Klotho by ADAM10 and ADAM17. Chen CD, Podvin S, Gillespie E, Leeman SE, Abraham CR. Proc Natl Acad Sci U S A. 2007 Dec 11;104(50):19796-801. Epub 2007 Dec 3. PMID: 18056631