

Rabbit Klotho Polyclonal Antibody | anti-KL antibody

Klotho Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322826	Rabbit	Human, Mouse, Rat	ELISA, Western Blot

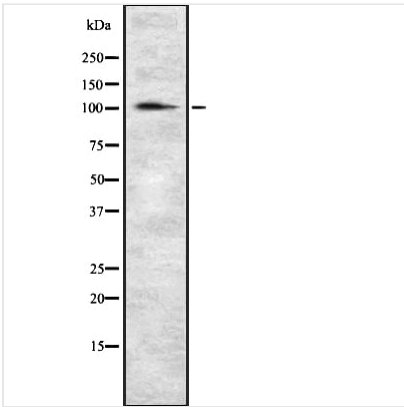
PRODUCT SYNONYMS

Klotho; Polyclonal Antibody; Klotho Antibody; KI; KLOT_HUMAN; Klotho peptide; anti-KL antibody

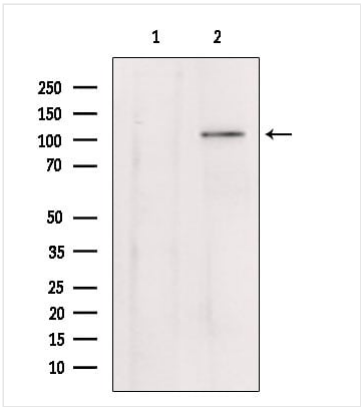
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Klotho antibody detects endogenous levels of total Klotho
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1012
Applicable Applications for anti-KL antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide derived from human Klotho
Subcellular Location	Secreted and Cell Membrane. Isoform 1 shedding leads to a soluble peptide.
Tissue Specificity	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.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Dog, Chicken
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Dog (92%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of Klotho using COLO205 whole cell lysates



WB (Western Blot)
Western blot analysis of extracts from mouse lung, using Klotho Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-KL antibody	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). Subunit Structure: Homodimer. Interacts with FGF23 and FGFR1. Post-translational Modifications: N-glycosylated. Similarity: Contains 2 glycosyl hydrolase 1 regions. However, the first region lacks the essential Glu active site residue at position 239, and the second one lacks the essential Glu active site residue at position 872. Belongs to the glycosyl hydrolase 1 family. Klotho subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	24497614
NCBI GeneID	9365
NCBI Accession #	NP_004786.2
NCBI GenBank Nucleotide #	NM_004795.3
UniProt Accession #	Q9UEF7; Q5VZ95; Q96KV5; Q96KW5; Q9UEI9; Q9Y4F0
Molecular Weight	Observed: 116 kDa Predicted: 117 kDa
NCBI Official Full Name	klotho
NCBI Official Synonym Full Names	klotho
NCBI Official Symbol	KL
NCBI Official Synonym Symbols	HFTC3
NCBI Protein Information	klotho
UniProt Protein Name	Klotho
UniProt Gene Name	KL

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.