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Kl antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11015

Product Information

Application	WB
Primary Accession	O35082
Other Accession	NM_013823, NP_038851
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	116398

Additional Information

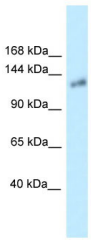
Gene ID	16591
Alias Symbol	alpha-kl
Other Names	Klotho, 3.2.1.31, Klotho peptide, Kl
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Kl antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Kl antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Kl
Function	Exhibits beta-glucuronidase activity in vitro despite lacking canonical catalytic Glu residues of glycosyl hydrolase 1 family enzymes (PubMed:14701853). Hydrolyzes steroid beta-D-glucuronides including estradiol-3-beta-D-glucuronide, estrone-3-beta-D-glucuronide and estriol-3-beta-D-glucuronide (PubMed:14701853). Essential for the interaction between FGF23 and FGFR1 and for FGF23-mediated regulation of renal vitamin D and phosphate homeostasis (PubMed:17086194).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Apical cell membrane; Single-pass type I membrane protein. Note=Isoform 1 shedding leads to a soluble peptide. [Klotho peptide]: Secreted

Tissue Location	[Isoform 1]: Expressed in distal renal tubules, inner ear, ependymal cells of brain choroid plexus, elongating spermatids and mature oocytes (at protein level). Expressed in pituitary gland, ovary, brain, kidney, testis, pancreas and thyroid gland at levels more than tenfold higher than isoform 2 [Isoform 2]: Expressed in pituitary gland, ovary, brain, kidney, testis, pancreas and thyroid gland at levels more than tenfold lower than isoform 1.

Images



WB Suggested Anti-Kl Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Small Intestine

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.