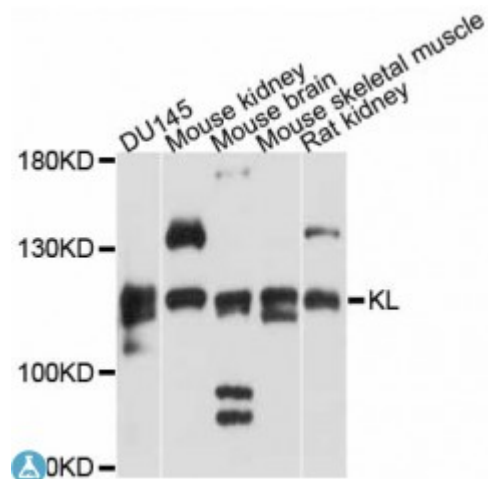


Anti-KL Antibody



Description

This gene encodes a type-I membrane protein that is related to beta-glucosidases. Reduced production of this protein has been observed in patients with chronic renal failure (CRF), and this may be one of the factors underlying the degenerative processes (e.g., arteriosclerosis, osteoporosis, and skin atrophy) seen in CRF. Also, mutations within this protein have been associated with ageing and bone loss.

Model	STJ113929
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-200 of human KL (NP_004786.2).
Gene ID	9365
Gene Symbol	KL
Dilution range	WB 1:500 - 1:2000
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
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Klotho

Molecular Weight	116.181 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6344OMIM:211900Reactome:R-HSA-109704
Alternative Names	Klotho
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 , Essential factor for the specific interaction between FGF23 and FGFR1 ,
Cellular Localization	Cell membrane
Post-translational Modifications	N-glycosylated,

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