

**KO605 Anti Mouse klotho Monoclonal Antibody** (Clone No. Rink12)

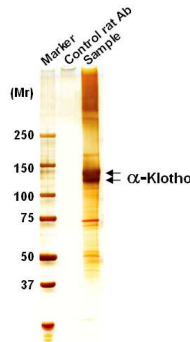
**Code No.** KO605  
**Category** Others  
**Target** klotho  
**Type** Monoclonal Antibody  
**Concentration** 0.25mg/ml  
**Contents ( Volume )** 50µg (200µL/vial)  
**Gene ID** 16591  
**Primary Source** MGI:1101771  
**Synonyms** alpha-kl; Kl  
**Immunogen** Recombinant protein of mouse klotho

**Raised in** Rat  
**Myeloma** P3U1  
**Clone number** Rink12  
**Purification** ProteinG  
**Source** Serum-free medium  
**Isotype** IgG2a  
**Cross Reactivity** Human  
**Label** Unlabeled  
**Buffer** PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]  
**Storage** Store below -20°C. Once thawed, store at 4°C. Repeated freeze-thaw cycles should be avoided.  
**Application** IP

**Recommended Antibody Dilutions**

ELISA	WB	IHC	ICC
Not Tested	Not available	Not Tested	Not Tested
IP	FCM	IF	Neutralization
Available	Not Tested	Not Tested	Not Tested

(µg/mL)



SDS-PAGE and Silver-Staining  
 Sample: immunoprecipitates of mouse plexus

This antibody was prepared by Dr. Y. Nabeshima, Kyoto Univ., Japan.

**UniProt Summary**

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. The Klotho peptide generated by cleavage of the membrane-bound isoform may be an anti-aging circulating hormone which would extend life span by inhibiting insulin/IGF1 signaling By similarity.

**Reference**

- 1) Kato Y, et al: Biochem Biophys Res Commun. 2000 Jan 19;267(2):597-602.
- 2) Tohyama O, et al: J Biol Chem. 2004 Mar 12;279(11):9777-84.
- 3) Imura A, et al: FEBS Lett. 2004 May 7;565(1-3):143-7.\*
- 4) Imura A, et al: Science. 2007 Jun 15;316(5831):1615-8.
- 5) Brownstein CA, et al: Proc Natl Acad Sci U S A. 2008 Mar 4;105(9):3455-60.

\*Application Reference