



COSMO BIO CO., LTD.
Inspiration for Life Science

K0605

For research use only

Anti Mouse klotho Monoclonal Antibody (Clone No. Rink12)

Code No.	K0605
Category	Others
Target	klotho
Type	Monoclonal Antibody
Concentration	0.25mg/ml
Contents (Volume)	50 μ g (200 μ L/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.

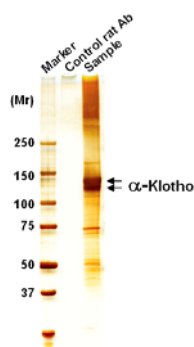
Application

IP

Recommended Antibody Dilutions

ELISA	WB	HC	EC
Not Tested	Not Available	Not Tested	Not Tested
P	FCM	F	Neutralization
Available	Not Tested	Not Tested	Not Tested

(μ g/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.

Manufactured by Trans Genic Inc.



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TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: http://www.cosmobio.co.jp/index_e.asp E-mail: export@cosmobio.co.jp

[Outside Japan]

[国内連絡先]

Phone : +81-3-5632-9617

Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619