Klotho (KL) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Klotho (KL), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Klotho (KL)
Product Gene Name	anti-KL antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: KL (MBS2002696) FITC Conjugated Antibody: KL (MBS2080298)
Matching Pairs	FITC Conjugated Antibody: KL (MBS2080298) Immunogen: KL (MBS2009561)
Molecular Weight	62,135 Da
OMIM	AB005142 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	klotho (Leu517~Leu956)
Conjugation	FITC
Cross Reactivity	Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2002696
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-KL antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-KL antibody	MBS2080298 is an antibody targeting KL. Also known as FITC-Linked Polyclonal Antibody to Klotho (KL). Reactive in Rat. Host: Rabbit.
Other Notes	Small volumes of anti-KL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KL. It may not necessarily be applicable to this product.

NCBI GI #	2618596
NCBI GeneID	9365
NCBI Accession #	BAA23382.1
UniProt Secondary Accession #	Q5VZ95; Q96KV5; Q96KW5; Q9UEI9; Q9Y4F0
UniProt Related Accession #	Q9UEF7

NCBI Official Full Name	klotho
NCBI Official Synonym Full Names	klotho
NCBI Official Symbol	KL
UniProt Protein Name	Klotho
Protein Family	Klotho
UniProt Gene Name	KL
NCBI Protein Information	klotho
NCBI Summary for KL	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. [provided by RefSeq, Jul 2008]
UniProt Comments for KL	Klotho: 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. Defects in KL are a cause of hyperphosphatemic familial tumoral calcinosis (HFTC). A severe metabolic disorder that manifests with hyperphosphatemia and massive calcium deposits in the skin and subcutaneous tissues. Some patients manifest recurrent, transient, painful swellings of the long bones associated with the radiographic findings of periosteal reaction and cortical hyperostosis and absence of skin involvement. Belongs to the glycosyl hydrolase 1 family. Klotho subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.2.1.31; Hydrolase; Membrane protein, integral Chromosomal Location of Human Ortholog: 13q13.1 Cellular Component: extracellular region; integral to plasma membrane; plasma membrane Molecular Function: 1-phosphatidylinositol-3-kinase activity; beta-glucosidase activity; fibroblast growth factor binding; fibroblast growth factor receptor binding; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; Ras guanyl-nucleotide exchange factor activity Biological Process: aging; fibroblast growth factor receptor signaling pathway; MAPKKK cascade; phosphoinositide-mediated signaling; positive regulation of bone mineralization; regulation of phosphoinositide 3-kinase cascade Disease: Tumoral Calcinosis, Hyperphosphatemic, Familial
Research Articles on KL	**1.** Results show that Klotho is expressed in skeletal muscle and levels are reduced by smoking.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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