

## Product datasheet

# Anti-Klotho antibody [RM0119-4F54] ab86794

### 概述

产品名称	Anti-Klotho抗体[RM0119-4F54]
描述	大鼠单克隆抗体[RM0119-4F54] to Klotho
宿主	Rat
经测试应用	适用于: WB, IHC-Fr
种属反应性	与反应: Mouse
免疫原	Mouse recombinant protein of Klotho.

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Constituent: PBS
纯度	Immunogen affinity purified
纯化说明	IgG fraction of culture supernatant purified by Protein A/G affinity chromatography and 0.2 µm filtered.
克隆	单克隆
克隆编号	RM0119-4F54
同种型	IgG2

### 应用

Our [Abpromise guarantee](#) covers the use of **ab86794** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/500 - 1/1000. Predicted molecular weight: 116 kDa.
IHC-Fr		1/50 - 1/200.

## 靶标

<b>功能</b>	<p>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.</p> <p>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.</p>
<b>组织特异性</b>	<p>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.</p>
<b>疾病相关</b>	<p>Defects in KL are a cause of hyperphosphatemic familial tumoral calcinosis (HFTC) [MIM:211900]. 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.</p>
<b>序列相似性</b>	<p>Belongs to the glycosyl hydrolase 1 family. Klotho subfamily.</p>
<b>结构域</b>	<p>Contains 2 glycosyl hydrolase 1 regions. However, the first region lacks the essential Glu active site residue at position 239, and the second one lacks the essential Glu active site residue at position 872.</p>
<b>翻译后修饰</b>	<p>N-glycosylated.</p>
<b>细胞定位</b>	<p>Secreted and Cell membrane. Isoform 1 shedding leads to a soluble peptide.</p>

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