

Anti-Beta Klotho Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	(predicted:Human,Mouse,Rat,Sheep)
Molecular Weight:	Theoretical: 125 kDa.
Purification:	Protein A purified

Applications

Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF,ELISA
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500; ELISA: 1:5000-10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human KLB
Antigen Species:	Human
Gene ID:	152831
Uniprot ID:	Q86Z14
Synonyms:	BKL;Beta-klotho;BetaKlotho;KLB;Klotho beta-like protein
Biology Area:	Cholesterol Metabolism,Other factors,Energy Metabolism,Cholesterol Metabolism,Cancer,FGF,Energy Metabolism,Lipid metabolism

Research Background

BetaKlotho is a 1044 amino acid single-pass type III membrane protein that plays a key role in bile acid and cholesterol metabolism by suppressing transcription of CYP7A1 (cholesterol 7-alpha-hydroxylase), the rate-limiting enzyme in bile acid synthesis. Homozygous negative betaKlotho mice showed dramatically elevated bile acid synthesis and secretion, as well as a strong upregulation of CYP7A1 and CYP8B1 and resistance to gallstone formation. FGF19 and FGF21 require direct interaction with betaKlotho for activation, intracellular signaling and gene expression modulation. Both Klotho and betaKlotho consist of two internal repeats similar to family 1 glycosidases. BetaKlotho contains two glycosyl hydrolase 1 regions, however since these regions lack essential glutamic acid residues at specific and crucial locations, the domains appear to be inactive.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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