

Anti-Beta Klotho Reference Antibody (Novartis patent anti-Beta Klotho)

Catalog # APR11339

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	Q9UEF7
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1-LALA-REM
Calculated MW	116181

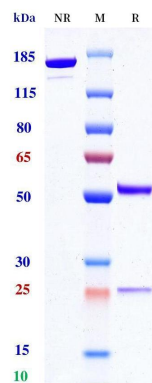
Additional Information

Target/Specificity	Beta Klotho
Expression system	CHO

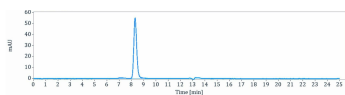
Protein Information

Name	KL
Function	Exhibits beta-glucuronidase activity in vitro despite lacking canonical catalytic Glu residues of glycosyl hydrolase 1 family enzymes (By similarity). Hydrolyzes steroid beta-D-glucuronides including estradiol-3-beta-D-glucuronide, estrone-3-beta-D-glucuronide and estriol-3-beta-D-glucuronide (By similarity). Essential for the interaction between FGF23 and FGFR1 and for FGF23-mediated regulation of renal vitamin D and phosphate homeostasis (By similarity).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Apical cell membrane {ECO:0000250 UniProtKB:O35082}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:O35082}. Note=Isoform 1 shedding leads to a soluble peptide. {ECO:0000250 UniProtKB:O35082} [Klotho peptide]: Secreted {ECO:0000250 UniProtKB:O35082}
Tissue Location	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.

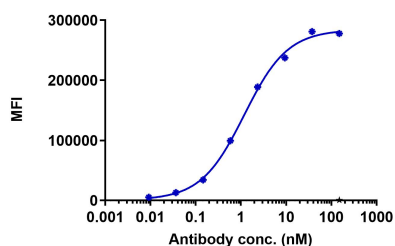
Images



Anti-Beta Klotho Reference Antibody (Novartis patent anti-Beta Klotho) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



The purity of Anti-Beta Klotho Reference Antibody (Novartis patent anti-Beta Klotho) is 97.65%, determined by SEC-HPLC.



HuKLB-HEK293-A6 cell line were stained with Novartis patent anti-Beta Klotho and negative control protein respectively, washed and then followed by PE and analyzed with FACS, with the EC50 is 1.187 nM.

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