Product datasheet

Anti-FGF21 Antibody

Catalog Number: *PA1673*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-FGF21 Antibody
Gene Name	FGF21
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human FGF21, different from the related rat and mouse sequences by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	22 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

FGF21(Fibroblast growth factor 21) is a protein that in humans is encoded by the FGF21 gene, which is also a member of the fibroblast growth factor(FGF) family. The FGF21 gene is mapped on 19q13.33. Using RT-PCR, Fgf21 was expressed in several types of adipose tissue in mice, including subcutaneous and epididymal fat pads and brown adipose tissue. The level of Fgf21 expression in adipose tissue was comparable to that in liver. FGF21 stimulates glucose uptake in adipocytes but not in other cell types. This effect is additive to the activity of insulin. FGF21 treatment of adipocytes is associated with phosphorylation of FRS2, a protein linking FGF receptors to the Ras/MAP kinase pathway. FGF21 also protects animals from diet-induced obesity when overexpressed in transgenic mice and lowers blood glucose and triglyceride levels when administered to diabetic rodents. Changes in Fgf21 expression due to suckling or nutritional manipulations were associated with changes in circulating free fatty acid and ketone body levels. In differentiated mouse brown adipocytes in culture, Fgf21 treatment increased the expression of thermogenic genes, caused higher total and uncoupled respiration, and enhanced glucose oxidation.

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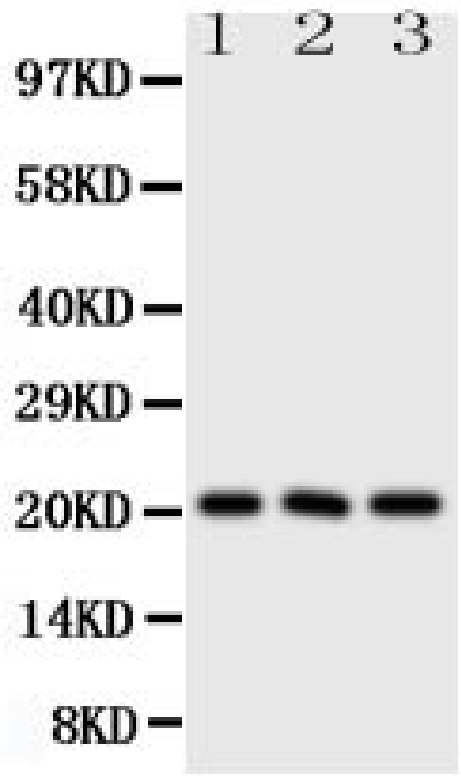
Selected Validation Data



Western blot analysis of FGF21 using anti-FGF21 antibody (PA1673). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: A549 whole cell lysates,
Lane 2: A431 whole cell lysates,
Lane 3: HEPA whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-FGF21 antigen affinity purified polyclonal antibody (PA1673) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for FGF21 at approximately 22 kDa. The expected band size for FGF21 is at 22 kDa.