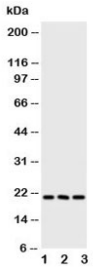
FGF21 Antibody (R30758)

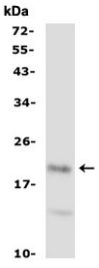
Catalog No.	Formulation	Size
R30758	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9NSA1
Applications	Western Blot : 0.5-1ug/ml
Limitations	This FGF21 antibody is available for research use only.



FGF21 Antibody Human Mouse WB. Western blot testing of FGF21 antibody and Lane 1: human A549; 2: human A431; 3: mouse HEPA cell lysate. Predicted molecular weight ~21 kDa.



FGF21 Antibody Rat Spleen WB. Western blot testing of rat spleen lysate with FGF21 antibody. Predicted molecular weight ~21 kDa.

Description

FGF21 Antibody specifically detects Fibroblast growth factor 21, a protein that in humans is encoded by the FGF21 gene, a member of the fibroblast growth factor (FGF) family. Using RT-PCR, the protein was found to express in several types of adipose tissue in mice, including subcutaneous and epididymal fat pads and brown adipose tissue. The level of 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 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.

For highly selective detection of FGF21 in endocrine signaling and metabolic pathway studies, see the FGF21 Antibody / Metabolic Signaling Hormone Antibody clone FGF21/4343 featuring protein microarray specificity validation.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the FGF21 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 43-58 (QVRQRYLYTDDAQQTE-human) were used as the immunogen for this FGF21 antibody.

Storage

After reconstitution, the FGF21 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.