

Polyclonal Antibody against Human FGF - 21

Catalog Number: 11180Size: 100 μgHost: Rabbit

Immunogen:

Recombinant full-length human FGF-21 expressed in E.Coli.

Purification method:

Immunoaffinity chromatography on a column with immobilized recombinant human FGF-21.

Specificity:

The antibody detects human FGF-21.

Formulation:

Solution in PBS.

Storage:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

Application/Usage:

ELISA- When conjugating to biotin, the antibody can be used as detection antibody.

Western blot, Immunoprecipitation and immunocytochemistry are not tested.

Introduction: Fibroblast growth factor 21(FGF-21) is a novel protein that has been implicated in the regulation of lipid and glucose metabolism under fasting and ketotic conditions^{1,2}. In murine models, FGF-21 is predominantly expressed in liver, but it also expressed in adipose tissue and pancreatic β-cells^{3,4}. FGF-21 stimulates glucose uptake in adipocytes. It also protects animals from dietinduced obesity when overexpressed in transgenic mice and lowers blood glucose and triglyceride levels when administered to diabetic rodents⁵. When administered daily for 6 weeks to diabetic rhesus monkeys, FGF-21 caused a dramatic decline in fasting plasma glucose, fructosamine, triglycerides, insulin, and glucagon⁶. Furthermore, elevated plasma FGF-21 concentrations in humans appear to be related to the presence of hepatic and peripheral insulin resistance⁷.

Reference:

- [1] Kharitonenkov A, Shiyanova TL, et al. (2005) J Clin Invest; 115: 1627–1635
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- [3] Nishimura T, Nakatake Y, et al. (2000) Biochim Biophys Acta; 1492: 203-206
- [4] Kurosu H, Choi M, et al. (2007) J Biol Chem; 282: 26687-26695
- [5] Kharitonenkov A, Shiyanova TL, et al. (2005) J. Clin. Invest. 115: 1627–35.
- [6] Kharitonenkov A, Wroblewski VJ, et al. (2007) Endocrinology;148:774-81
- [7] Chavez AO, Molina-Carrion M, et al. (2009) Diabetes Care; 32:1542-6.