

Polyclonal Antibody against Human LCN13

Catalog Number: 11360

Size: 100 µg

Host: Rabbit

Immunogen:

Recombinant full-length human LCN13 expressed in E.Coli.

Preparation:

Rabbit specific IgG was purified by human LCN13 affinity chromatography

Specificity:

The antibody detects circular human LCN13

Formulation:

Solution in PBS

Storage:

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

Application/Usage:

ELISA - This antibody can be used as capture antibody with the appropriate secondary reagents to detect human LCN13.

Western blot - This antibody can be used as primer antibody with the appropriate secondary reagents to detect human LCN13

Immunoprecipitation and immunocytochemistry are not tested.

Introduction

Lipocalin-13 (LCN13), also known as odorant binding protein 2A (Obp2a), is one newly identified potential candidate to regulate glucose and lipid metabolism. LCN13 is mainly found in liver, skeletal muscle and the pancreas out of multiple tissues in mice. Animal studies suggest LCN13 protein protects against hepatic steatosis.^[1] It was found that LCN13 can attenuate hyperglycemia and insulin resistance in both insulin-dependent and independent manners.^[2] Expression of LCN13 was found down-regulated in the liver and circulation of diet induced obese, genetic obese (ob/ob) and diabetic (db/db) mouse models^[3]. LCN13 is evolutionary conserved in many species including human. Due to its potent effects demonstrated by recent studies, it is suggested to be a promising drug target to treat obesity and T2DM.^[2]

Reference:

- [1] Lipocalin 13 protein protects against hepatic steatosis by both inhibiting lipogenesis and stimulating fatty acid β -oxidation. Sheng L, Cho KW, Zhou Y, Shen H, Rui L. *J Biol Chem*. 2011 Nov 4;286(44):
- [2]. Lipocalin-13 regulates glucose metabolism by both insulin-dependent and insulin-independent mechanisms. Cho KW, Zhou Y, Sheng L, Rui L. *Mol Cell Biol*. 2011 Feb;31(3):450-7.
- [3]. Lipocalin 13 regulation of glucose and lipid metabolism in obesity. Zhou Y, Rui L. *Vitam Horm*. 2013;91:369-83.