Monoclonal Antibodies Against GPIHBP1

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INNOVATION

Researchers at UCLA have developed monoclonal antibodies that recognize mouse and human glycosylphosphatidylinositol-anchored high density lipoprotein binding protein 1 (GPIHBP1).

- Rat monoclonal antibody, 11A12, against mouse GPIHBP1
- Mouse monoclonal antibody against human GPIHBP1

BACKGROUND

Dietary fats are packaged by the intestines into triglyceride-rich lipoproteins called chylomicrons. The triglycerides in chylomicrons are hydrolyzed by lipoprotein lipase (LPL) along the luminal surface of capillaries, mainly in heart, skeletal muscle, and adipose tissue. GPIHBP1 is a capillary endothelial cell protein that provides a platform for LPL-mediated processing of chylomicrons (Beigneux et al., 2007 [PubMed 17403372]).

APPLICATIONS

Western, IHC, ICC

RELATED MATERIALS

- Highly Conserved Cysteines within the Ly6 Domain of GPIHBP1 Are Crucial for the Binding of Lipoprotein Lipase. J Biol Chem. (2009)
- GPIHBP1 is responsible for the entry of lipoprotein lipase into capillaries. Cell Metab. (2010)

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- A New Mechanism For Hypertriglyceridemia In Humans
- Mouse Model for Premature Aging: Zmpste24 Knockout Mice
- Monoclonal Antibodies Against Prelamin A

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OTHER INFORMATION

KEYWORDS

antibody, monoclonal, lipid, triglyceride, reagents, research tools

CATEGORIZED AS

- **Research Tools**
  - Antibodies

RELATED CASES

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