# Polyclonal Antibody against Mouse Fatty-acid Binding Protein 4

**Catalog Number: 12030** **Size: 100 ug** **Host: Rabbit**

## Introduction to the Molecule

Fatty-acid binding protein 4(FABP4), also termed adipocyte fatty-acid binding protein (A-FABP), or aP2, is a novel adipocyte-expressed factor which accounted for ~6% of total cellular proteins. Several animal experiments suggested that FABP-4 plays a key role in the link between obesity and various features of metabolic syndrome. Mice with targeted disruption of FABP-4 accompany FABP-5 almost completely protect against diet-induced obesity, insulin resistance, dyslipidemia, type 2 diabetes, and fatty liver disease. Studies in human found FABP-4 serum levels were significantly increased in overweight and obese subjects, which predicted the risk to develop a metabolic syndrome and type 2 diabetes. Additionally, serum FABP-4 levels were associated with carotid atherosclerosis and coronary artery disease.

## Isotype / Preparation:

Rabbit crude IgG was purified by protein-G column

## Immunogen:

Recombinant full-length mouse FABP4 expressed in *E.coli*.

## Specificity:

The antibody detects mouse FABP4.

## Formulation:

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

## Application / Usage:

**Western blot -** This antibody can be used at 0.5 - 1 µg/mL with the appropriate secondary reagents to detect mouse FABP4.

**Immunoprecipitation**, **ELISA** and **immunocytochemistry** are not tested.

## Quality Control Test

BCA to determine quantity of the antibody

## Reference:

[1] Xu A, et al. (2006) Adipocyte Fatty Acid–Binding Protein Is a Plasma Biomarker Closely Associated with Obesity and Metabolic Syndrome. Clin Chem. 52(3):405-13.
[2] Xu A, et al. (2007) Circulating adipocyte–fatty acid binding protein levels predict the development of the metabolic syndrome: a 5-year prospective study. Circulation. 115:1537–1543.
[3] Rhee EJ, et al. (2009) The association of serum adipocyte fatty acid-binding protein with coronary artery disease in Korean adults. Eur J Endocrinol. 160(2):165-72.

## Contact Us

- Website: www.immunodiagnostics.com.hk
- E-mail: info@immunodiagnostics.com.hk
- Tel: (+852) 2831 5526; 2831 5508
- Fax: (+852) 2816 2095