# Polyclonal Antibody against Mouse Fatty-acid Binding Protein 4

**Catalog Number: 12030** **Size: 100 µg** **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 FABP4 plays a key role in the link between obesity and various features of metabolic syndrome. Mice with targeted disruption of FABP4 accompany FABP5 almost completely to protect against diet-induced obesity, insulin resistance, dyslipidemia, type 2 diabetes, and fatty liver disease. Studies in human found FABP4 serum levels were significantly increased in overweight and obese subjects, which predicted the risk to develop metabolic syndrome and type 2 diabetes. Additionally, serum FABP4 levels were associated with carotid atherosclerosis and coronary artery disease.

## Purification

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 & Storage

Liquid in phosphate-buffered saline (PBS). Store at –20°C for less than one week. 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.

## References

[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.