

## Monoclonal Antibody against Human FABP4 (2C10)

Catalog Number: 21030

Size: 100 ug

Host: Mouse

### 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.<sup>1</sup> 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.<sup>2</sup> 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.<sup>3-4</sup> Additionally, serum FABP-4 levels were associated with nonalcoholic fatty liver disease, carotid atherosclerosis and coronary artery disease.<sup>5-7</sup>

### Isotype/Preparation:

**Mouse IgG**; Affinity chromatography on a column with immobilized protein G.

### Immunogen:

Recombinant full-length human FABP4 in *E.coli*.

### Specificity:

The antibody detects human FABP4. Not yet tested in other species.

### Formulation:

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

### Application/Usage:

This antibody can be used as a capture antibody in a human FABP4 ELISA.

### Reference:

- [1] Makowski L, et al. (2004) J Nutr. 134: 2464S–2468S.
- [2] Makowski L, et al. (2001) Nat Med. 7: 699–705.
- [3] Xu A, et al. (2006). Clin Chem. 52(3):405-13.
- [4] Xu A, et al. (2007). Circulation. 115:1537–1543.
- [5] Rhee EJ, et al. (2009) Eur J Endocrinol. 160(2):165-72.
- [6] Tso AW, et al. (2007) Diabetes Care. 30(10):2667-72
- [7] J. Hyun Koh, et al. (2009) Diabetes Care. 32(1): 147 - 152.

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