



## Polyclonal Anti-Fatty Acid-binding Protein 4 , *FABP4* (Sepharose Bead Conjugate)

**Catalogue No.** PA1209-S

**Lot No.** 09B01

**Ig type:** rabbit IgG

**Size:** 100µg/vial

**Specificity**

Human, mouse, rat. No cross reactivity with other proteins.

**Recommended application**

(Immunoprecipitation(IP))

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminal of human FABP4, different to the related rat sequence by two amino acids.

**Purification**

Immunogen affinity purified.

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub>a<sub>3</sub> preservative.

**Storage**

Store at 4°C for frequent use.

**Description:**

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

### BACKGROUND

Fatty acid binding proteins (FABPs) are small cytoplasmic proteins that are expressed in a highly tissue-specific manner and bind to fatty acids such as oleic and retinoic acid.<sup>1</sup> Adipocyte fatty-acid-binding protein, aP2 (FABP4) is expressed in adipocytes and macrophages, and integrates inflammatory and metabolic responses. Studies in aP2-deficient mice have shown that this lipid chaperone has a significant role in several aspects of metabolic syndrome, including type 2 diabetes and atherosclerosis.<sup>2</sup> It regulates allergic airway inflammation and may provide a link between fatty acid metabolism and asthma.<sup>3</sup>

### REFERENCE

1. Hotamisligil, G. S.; Johnson, R. S.; Distel, R. J.; Ellis, R.; Papaioannou, V. E.; Spiegelman, B. M. : Uncoupling of obesity from insulin resistance through a targeted mutation in aP2, the adipocyte fatty acid binding protein. *Science* 274: 1377-1379, 1996.
2. Furuhashi, M.; Tuncman, G.; Gorgun, C. Z.; Makowski, L.; Atsumi, G.; Vaillancourt, E.; Kono, K.; Babaev, V. R.; Fazio, S.; Linton, M. F.; Sulsky, R.; Robl, J. A.; Parker, R. A.; Hotamisligil, G. S. : Treatment of diabetes and atherosclerosis by inhibiting fatty-acid-binding protein aP2. *Nature* 447: 959-965, 2007.
3. Shum, B. O. V.; Mackay, C. R.; Gorgun, C. Z.; Frost, M. J.; Kumar, R. K.; Hotamisligil, G. S.; Rolph, M. S. : The adipocyte fatty acid-binding protein aP2 is required in allergic airway inflammation. *J. Clin. Invest.* 116: 2183-2192, 2006.

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