

Epidermal Fatty Acid Binding Protein Human, Rabbit Polyclonal Antibody

Product Data Sheet

Source of Antigen: *E. coli*

Cat. No.:

Host: Rabbit

RD181060100

(0.1 mg)

Other names: FABP5, Fatty acid-binding protein epidermal, Epidermal-type fatty acid-binding protein, E-FABP, Fatty acid-binding protein 5, Psoriasis-associated fatty acid-binding protein homolog, PA-FABP

Research topic

Cardiovascular disease, Diabetology - Other Relevant Products, Energy metabolism and body weight regulation, Oncology

Preparation

The antibody was raised in rabbits by immunization with the recombinant Human FABP5.

Amino Acid Sequence

The immunization antigen (15.2 kDa) is a protein containing 135 AA of recombinant Human FABP5 and one extra AA, N-terminal methionin (highlighted).

MATVQQLEGR WRLVDSKGF D EYMKELGVGI ALRKMAMAK PDCIITCDGK NLTIKTESTL KTTQFSCTLG EKFEETTADG
RKTQTVCNFT DGALVQHQEW DGKESTITRK LKDGKLVVEC VMNNVTCTRI YEKVE

Species Reactivity

Human

Not yet tested in other species.

Purification Method

Immunoaffinity chromatography on a column with immobilized recombinant Human FABP5.

Antibody Content

0.1 mg (determined by BCA method, BSA was used as a standard)

Formulation

The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. **AZIDE FREE.**

Reconstitution

Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Stability

The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C.

Expiration

See vial label.

Lot Number

See vial label.

Quality Control Test

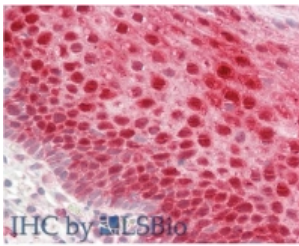
Indirect ELISA - to determine titer of the antibody

SDS PAGE - to determine purity of the antibody

Applications

ELISA, Immunohistochemistry, Western blotting

Antibodies application



Immunohistochemical staining of formalin-fixed paraffin-embedded human forest epithelium using anti-EBP100 (Epidermal Fatty Acid Binding Protein Human, Rabbit Polyclonal Antibody) at concentration of 5 µg/ml.

IHC performed by LSBio lab for BioVendor according to the IHC-plus Protocol: <https://www.lsbio.com/resources/ihc-plus-protocol>

Introduction to the Molecule

Human fatty acid binding protein EFABP is a 15 kD member of the intracellular fatty acid binding protein (FABP) family, which is known for the ability to bind fatty acids and related compounds (bile acids or retinoids) in an internal cavity. The fatty acid binding proteins aP2 (fatty acid binding protein [FABP]-4) and mal1 (EFABP) are closely related and both are expressed in adipocytes. Absence of EFABP/mal1 resulted in increased systemic insulin sensitivity in two models of obesity and insulin resistance. Adipocytes isolated from mal1-deficient mice also exhibited enhanced insulin-stimulated glucose transport capacity. In contrast, mice expressing high levels of mal1 in adipose tissue display reduced systemic insulin sensitivity.

References to this Product

- Martin GG, Chung S, Landrock D, Landrock KK, Huang H, Dangott LJ, Peng X, Kaczocha M, Seeger DR, Murphy EJ, Golovko MY, Kier AB, Schroeder F. *Fabp-1 gene ablation impacts brain endocannabinoid system in male mice.* J Neurochem. 2016 May 11;
- Martin GG, Chung S, Landrock D, Landrock KK, Dangott LJ, Peng X, Kaczocha M, Murphy EJ, Kier AB, Schroeder F. *Female Mice are Resistant to Fabp1 Gene Ablation-Induced Alterations in Brain Endocannabinoid Levels.* Lipids. 2016 Jul 23;
- Yamane Y, Moriyama K, Yasuda C, Miyata S, Aihara M, Ikezawa Z, Miyazaki K. *New horny layer marker proteins for evaluating skin condition in atopic dermatitis.* Int Arch Allergy Immunol. 2009;150 (1):89-101

Note

This product is for research use only.

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