Epidermal Fatty Acid Binding Protein Human, Rabbit Polyclonal Antibody

Product Data Sheet

Source of Antigen: E. coli
Host: Rabbit
Cat. No.: 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 WRLVDSKGFD EYMKELGVGI ALRKMGAMAK PDCIITCDGK NLTIKTESTL KTTQFSCTLG EKFEETTADG RKTQTVCNFT DGALVQHQEW DGKESTITRK LKDGLVVEC VMNNVCTRI YEKVE

Species Reactivity
Human
Not yet tested in other species.

Purification Method
Imunoaffinity 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
Applications
ELISA, Immunohistochemistry, Western blotting

Antibodies application

Introduction to the Molecule
Human fatty acid binding protein EFABP is a 15 kDa 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

Note
This product is for research use only.