Human FABP4/A-FABP antibody

Catalog Number: AFA0920

PRODUCT INFORMATION

Catalog number
AFA0920

Clone No.
3F4

Product type
Monoclonal Antibody

UnitProt No.
P15090

NCBI Accession No.
NP_001433

Alternative Names
Fatty acid binding protein 4, fatty acid binding protein 4 adipocyte, A-FABP, aP2

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human FABP4 (1-132aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

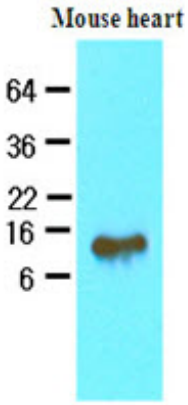
FABP4 (Fatty acid binding protein 4) is expressed in adipocytes and macrophages, and integrates inflammatory and metabolic responses. FABP4 is thought to regulate fatty acid uptake, release, and storage in adipocytes and participates in systemic glucose homeostasis and in macrophage responses in atherosclerosis. Blocking this protein either through genetic engineering or drugs has the possibility of treating heart disease, diabetes, asthma, obesity, and fatty liver disease.

General References

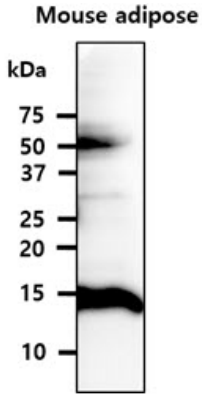
Furuhashi M., et al., (2007) Nature. 21.447(7147):959-65.
Shum BO, et al., (2006) J Clin Invest. 116(8):2183-92.

DATA

Western blot analysis (WB)



The tissue lysates of mouse heart (40ug) was resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human FABP4 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



The tissue lysates of mouse adipose (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human FABP4 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

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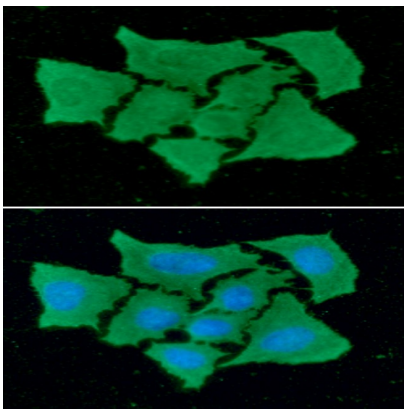

ICC/IF analysis of FABP4 in HeLa cells. The cell was stained with AFA0920 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).