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# **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**

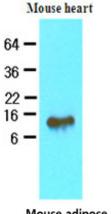
FABP4 (Fatty acid binding protein 4) is expressed in adipocytes and macrophages, and integrates inflammatory and metabolic responses. FABP4 is thought to regulate fatty acid uptake, release, and storage in adipocytes and participates in systemic glucose homeostasis and in macrophage responses in atherosclerosis. 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**

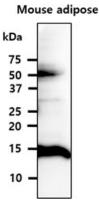
Furuhashi M., et al., (2007) Nature. 21.447(7147):959-65. Shum BO, et al., (2006) | Clin Invest. 116(8):2183-92.

## **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.

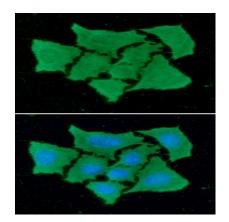
Immunocytochemistry/Immunofluorescence (ICC/IF)



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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).

