

Monoclonal anti-human FABP4 antibody (clone 3F4)

Mouse IgG₁, κ

Cat. No. IBAFA0920

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

NCBI Accession No.: NP_001433

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human FABP4 mAb, clone 3F4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human FABP4 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, ICC/IF, Flow cytometry

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



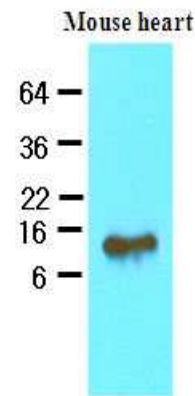
Manufactured for:

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Product information

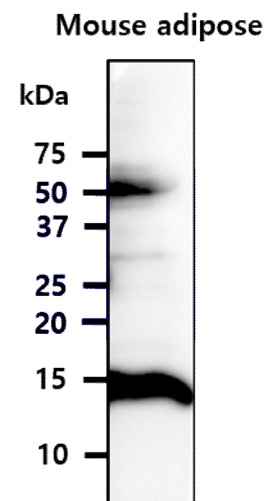
Western blot analysis

The extracts of mouse heart (40ug) were 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.



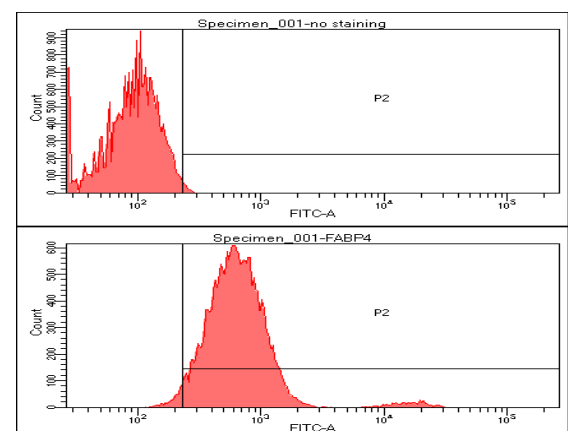
Western blot analysis

The extracts of mouse adipose (40ug) were 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.



Flow cytometry

Flow cytometry analysis of FABP4 in U87MG cell line, staining at 2-5ug for 1×10^6 cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.

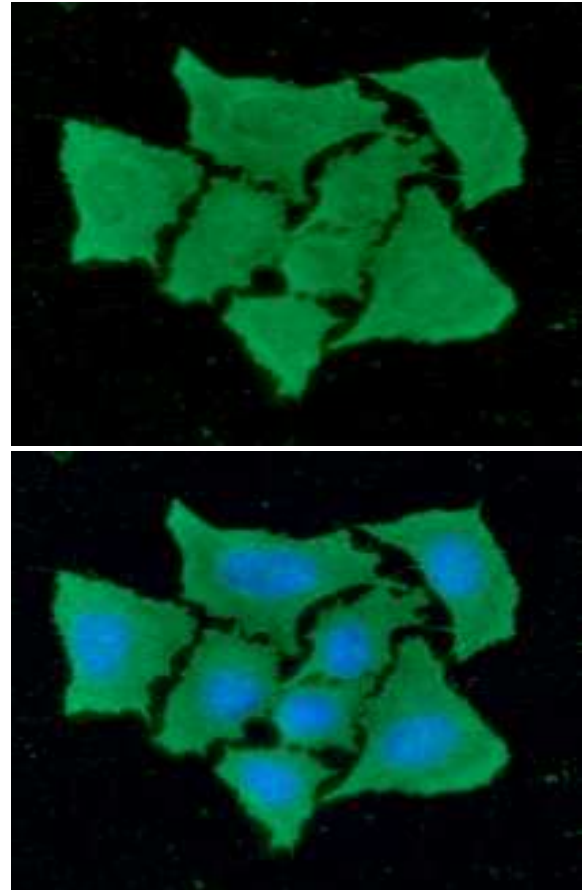


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ICC/IF analysis

ICC/IF analysis of FABP4 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human FABP4 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



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.

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