

# Recombinant human FABP4/A-FABP protein

Catalog Number: FAB0802

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-132aa

### UniProt No.

P15090

### NCBI Accession No.

NP\_001433.1

### Alternative Names

Fatty acid binding protein 4, IL-1 alpha, Hematopoietin-1, A-FABP, ALBP, FABP4, Fatty acid binding protein 4 adipocyte, AP2

## PRODUCT SPECIFICATION

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### Molecular Weight

14.7 kDa (132aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 2mM EDTA, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

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

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### Description

Fatty acid-binding protein 4 (FABP4), known as adipocyte FABP (A-FABP) or aP2, is a carrier protein for fatty acids that is primarily expressed in adipocyte and macrophages. FABP4 is secreted from adipocytes in a non-classical pathway associated with lipolysis and acts as an adipokine for the development of insulin resistance and

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atherosclerosis. Circulating FABP4 levels are associated with several aspects of metabolic syndrome and cardiovascular disease. Blocking this protein either through genetic engineering or drugs has the possibility of treating heart disease and the metabolic syndrome. Recombinant human FABP4 protein, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

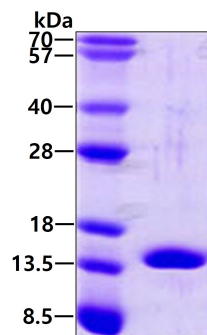
MCDAFVGTWK LVSSNFDDY MKEVGVGFAT RKVAGMAKPN MIISVNGDVI TIKSESTFKN TEISFILGQE FDEVTADDRK  
VKSTITLDGG VLVHVQKWDG KSTTIKRKRE DDKLVVECVM KGV TSTRVYE RA

## General References

Furuhashi M., et al. (2007).*Nature*. 447(7147):959-65  
Shum BO., et al. (2006).*J Clin Invest*. 116(8):2183-2192

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.