

# Recombinant Human FABP4/A-FABP/ALBP(A29T) Protein

Catalog No.: RP00045 **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 2167    | P15090     |

### Tags

No tag

### Synonyms

A-FABP; AFABP; ALBP; HEL-S-104; aP2; FABP4; AFABP; ALBP; HEL-S-104; aP2

## Product Information

| Source         | Purification       |
|----------------|--------------------|
| <i>E. coli</i> | > 95% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 14.62 kDa     | 15 kDa      |

### Endotoxin

< 1.0 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Fatty acid-binding protein, adipocyte, also known as Adipocyte-type fatty acid-binding protein. It is a cytoplasm protein which belongs to the calycin superfamily and Fatty-acid binding protein (FABP) family. In familial combined hyperlipidemia (FCHL), FABP4 correlated to body mass index (BMI), waist circumference and homeostasis model assessment (HOMA) index. FABP4 levels were associated with triglyceride-rich lipoproteins. In humans serum FABP4 levels correlate significantly with features of PCOS. It appears to be a determinant of atherogenic dyslipidemia. FABP4 pathway mediates the sebaceous gland hyperplasia in keratinocyte-specific Pten-null mice. FABP4 concentration significantly increased with an increasing of MS features and was strongly correlated with body-mass index, triglycerides, HDL-cholesterol concentrations and blood pressure. FABP4 is a strong plasma marker of metabolic disturbances in HIV-infected patients, and therefore, could serve to guide therapeutic intervention in this group of patients.

## Basic Information

### Description

Recombinant Human FABP4/A-FABP/ALBP(A29T) Protein is produced by *E. coli* expression system. The target protein is expressed with sequence ( Cys2-Ala132 (29Ala/Thr) ) of human FABP4 (Ala29Thr) (Accession #NP\_001433.1).

### Bio-Activity

### Storage

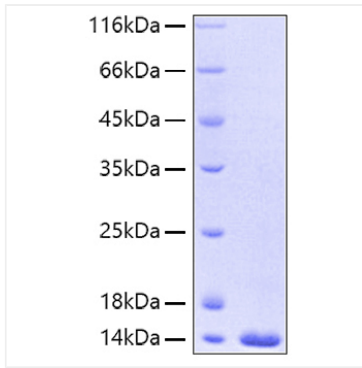
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human FABP4/A-FABP/ALBP(A29T) Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15 kDa.