

## Recombinant Mouse FABP5

<b>Type:</b>	Recombinant	<b>Cat. No.:</b>	42040
<b>Tag:</b>	His	<b>Size:</b>	0.1 mg
<b>Source:</b>	E.Coli	<b>Purity:</b>	>95%
<b>Other names:</b>	E-FABP; PA-FABP	<b>Species:</b>	Mouse

### Introduction to the Molecule

The fatty-acid-binding proteins (FABPs) are a family of carrier proteins for fatty acids and other lipophilic substances such as eicosanoids and retinoids. These proteins are thought to facilitate the transfer of fatty acids between extra- and intracellular membranes. The fatty acid binding protein 4 (FABP-4) and fatty acid binding protein 5 (FABP5) are closely related and both are expressed in adipocytes. Mice with targeted disruption of FABP-4 accompany FABP-5 almost completely protect against diet-induced obesity, insulin resistance, dyslipidemia, type 2 diabetes, and fatty liver disease. While mice over expressing FABP5 in adipose have reduced insulin sensitivity.

### Description

Total 163 AA. Mw:18.5 kDa (calculated). N-terminal His-tag and TEV cleavage site, 28 extra AA (highlighted).

### Amino Acid Sequence

<b>MSYYHHHHHH</b>	<b>DYDIPTTENL</b>	<b>YFQGAMGS</b>	MASLKDLEGK	WRLMESHGFE
EYMKELGVGL	ALRKMAAMAK	PDCIITCDGN	NITVKTESTV	KTTVFSCNLG
EKFDETTADG	RKTETVCTFQ	DGALVQHQQW	DGKESTITRK	LKDGKMIVEC
VMNNATCTRV	YEKVQ			

### Formulation

Lyophilized in 1 mg/mL in PBS.

### Reconstitution

Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

### Storage

Store lyophilized protein at  $-20^{\circ}\text{C}$ . Aliquot reconstituted protein and store at  $-80^{\circ}\text{C}$ . Avoid repeated freezing /thawing cycles.

### Applications

Western blotting

## Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

## SDS-PAGE gel

