42040. Recombinant Mouse Fatty Acid Binding Protein 5 (mFABP5)

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

Introduction

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

MSYYHHHHHHDYDIPTTENLYFQGAMGSMASLKDLEGKWRLMESHGFEEYMKELGVGLALRKM
AAMAKPDCIITCDGNNITVKTESTVKTTVFSCNLGEKFDETTADGRKTETVCTFQDGALVQHQQWDG
KESTITRKLKDGKMIVECVMNNATCTRVYEKVQ

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.

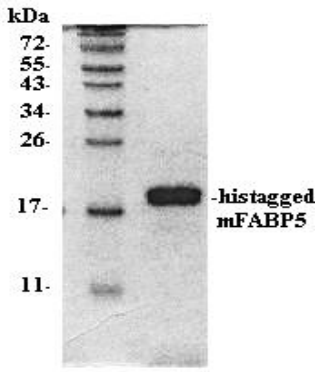
Storage: Store lyophilized protein at –20°C. Aliquot reconstituted protein and store at –80°C. Avoid repeated freezing /thawing cycles.

Applications: Western blotting

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

SDS-PAGE Gel



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