

Recombinant Human FABP4

Type:	Recombinant	Cat. No.:	41030
Tag:	His	Size:	0.1 mg
Source:	E.Coli	Purity:	>95%
Other names:	aP2; A-FABP;	Species:	Human

Introduction to the Molecule

Fatty-acid binding protein 4(FABP4), also termed adipocyte fatty-acid binding protein (A-FABP), or aP2, is a novel adipocyte-expressed factor which accounted for ~6% of total cellular proteins. Several animal experiments suggested that FABP-4 plays a key role in the link between obesity and various features of metabolic syndrome. 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. Studies in human found FABP-4 serum levels were significantly increased in overweight and obese subjects, which predicted the risk to develop metabolic syndrome and type 2 diabetes. Additionally, serum FABP-4 levels were associated with carotid atherosclerosis and coronary artery disease.

Description

Total 160 AA. Mw: 18 kDa (calculated). N-terminal His-tag and TEV cleavage site, 28 extra AA (highlighted).

Amino Acid Sequence

MSYYHHHHHH DYDIPTTENL YFQGAMGS MCDAFVGTWK LVSSNFDDY
MKEVGVGFAT RKVAGMAKPN MIISVNGDVI TIKSESTFKN TEISFILGQE
FDEVTADDRK VKSTITLDGG VLVHVQKWDG KSTTIKRKRE DDKLVVECVM
KGVTSSTRVYE RA

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

ELISA and Western blotting.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

SDS-PAGE gel

