

Recombinant Human FABP4 protein, His-tagged

Cat. No. FABP4-440H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FABP4 protein(Cys2~Ala132), fused with N-terminal His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Cys2~Ala132
Form	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Bio-activity	Fatty acid binding protein-4 (FABP4) is a member of a large superfamily of lipid binding proteins that are expressed in a tissue specific manner. FABP4 is one of ten cytoplasmic FABPs that are 14-15 kDa in size and range from 126-140 amino acids (aa) in length. Although all are highly conserved in their tertiary structure, there is only modest aa identity between any two members. Lipase, Hormone Sensitive (LIPE) has been identified as an interactor of FABP4, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FABP4 and recombinant human LIPE. Briefly, FABP4 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to LIPE-coated microtiter wells and incubated for 1h at 37°C. Wells were aspirated and incubated for 1h with anti-FABP4 mAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary

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antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 μ stop solution to the wells and read at 450 nm immediately. The EC₅₀ for this effect is 4.23 μ g/mL.

Molecular Mass	16.2kDa
Endotoxin	<1.0EU per 1 μ g (determined by the LAL method).
Purity	>95%

GENE INFORMATION

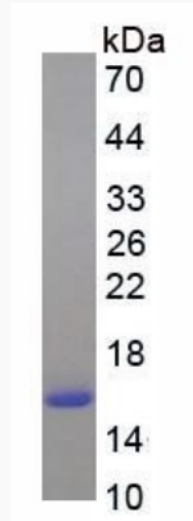
Official Symbol	FABP4
Synonyms	FABP4; fatty acid binding protein 4, adipocyte; fatty acid-binding protein, adipocyte; A-FABP; aP2; fatty acid-binding protein 4; adipocyte lipid-binding protein; adipocyte-type fatty acid-binding protein; ALBP; AFABP; A-FABP;
Gene ID	2167
mRNA Refseq	NM_001442
Protein Refseq	NP_001433
MIM	600434
UniProt ID	P15090

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SDS-PAGE



Activity

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