

Fatty Acid Binding Protein 4 (FABP4) Active Protein | FABP4 active protein

Active Fatty Acid Binding Protein 4 (FABP4)

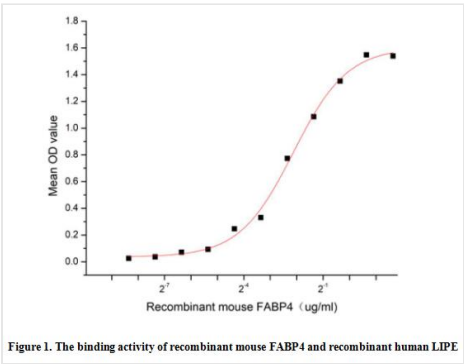
CATALOG # AAA161857	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Fatty Acid Binding Protein 4 (FABP4); Active Fatty Acid Binding Protein 4 (FABP4); Fatty Acid Binding Protein 4; A-FABP; AFABP; AP2; Adipocyte; Adipocyte Protein 2; Adipocyte-type fatty acid-binding protein4; FABP4 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Cys2~Ala13 2
Applicable Applications for FABP4 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	8.5
Research Area	Metabolic pathway, Endocrinology, Cardiovascular biology, Hepatology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

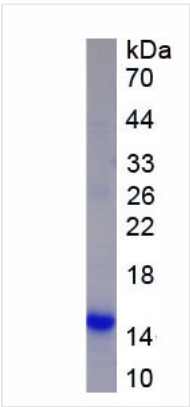


Bioactivity

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 functional binding ELISA assay was conducted to detect the interaction of recombinant mouse 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 degree C. Wells were aspirated and incubated for 1h with anti-FABP4 mAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450 nm immediately. The binding activity of FABP4 and LIPE was shown in Figure 1, and this effect was in a dose dependent manner. The EC50 for this effect is 0.23 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for FABP4 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	14149635
NCBI GeneID	11770
NCBI Accession #	NP_077717.1
NCBI GenBank Nucleotide #	NM_024406.2
UniProt Accession #	P04117
Molecular Weight	14,650 Da
NCBI Official Full Name	fatty acid-binding protein, adipocyte
NCBI Official Synonym Full Names	fatty acid binding protein 4, adipocyte
NCBI Official Symbol	Fabp4
NCBI Official Synonym Symbols	Ap2; Lbpl; 422/aP2; ALBP/Ap2
NCBI Protein Information	fatty acid-binding protein, adipocyte
UniProt Protein Name	Fatty acid-binding protein, adipocyte
UniProt Gene Name	Fabp4
UniProt Synonym Gene Names	Ap2; ALBP; A-FABP; AFABP
UniProt Entry Name	FABP4_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/fatty-acid-binding-protein-4-fabp4/161857>