Mouse intestinal fatty acid binding protein,iFABP ELISA Kit

Product Code	CSB-E08025m
Abbreviation	iFABP
Protein Biological Process 1	Transport
Target Name	intestinal fatty acid binding protein,iFABP
Uniprot No.	P55050
Alias	FABPI, I-FABP, MGC133132, intestinal fatty acid binding protein 2, FABP2
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Transport
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	Fabp2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse iFABP ELISA Kit was designed for the quantitative measurement of Mouse iFABP protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL.
Target Details	The intracellular fatty acid-binding proteins (FABPs) belong to a multigene family with nearly twenty identified members. FABPs are divided into at least three distinct types, namely the hepatic-, intestinal- and cardiac-type. They form 14-15 kDa proteins and are thought to participate in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. They may also be

responsible in the modulation of cell growth and proliferation. Intestinal fatty acid-binding protein 2 gene contains four exons and is an abundant cytosolic protein in small intestine epithelial cells. This gene has a polymorphism at codon 54 that identified an alanine-encoding allele and a threonine-encoding allele. Thr-54 protein is associated with increased fat oxidation and insulin resistance.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse iFABP in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:100	Average %	102
	Range %	96-108
1:200	Average %	95
	Range %	91-99
1:400	Average %	96
	Range %	91-102
1:800	Average %	86
	Range %	82-92

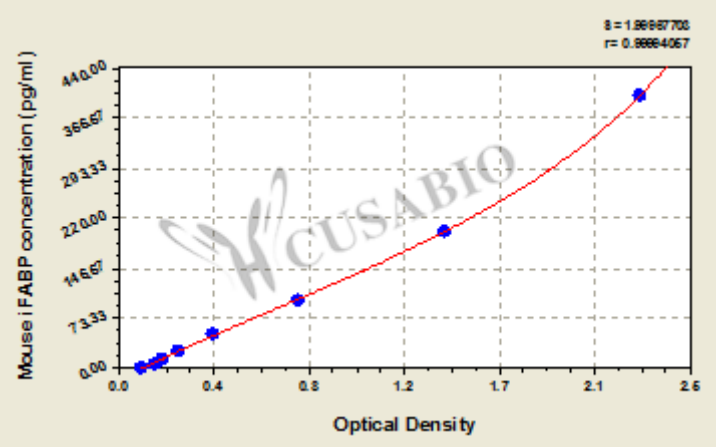
Recovery

The recovery of mouse iFABP spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	88	82-94
EDTA plasma (n=4)	96	90-104

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
400	2.217	2.317	2.267	2.163
200	1.367	1.467	1.417	1.313
100	0.777	0.797	0.787	0.683
50	0.412	0.422	0.417	0.313
25	0.265	0.268	0.267	0.163
12.5	0.189	0.199	0.194	0.090
6.25	0.162	0.165	0.164	0.060
0	0.104	0.103	0.104	?

Msds

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