



Pig intestinal fatty acid binding protein,iFABP

ELISA Kit

Product Code	CSB-E13994p
Abbreviation	FABP2
Protein Biological Process 1	Transport
Target Name	fatty acid binding protein 2, intestinal
Uniprot No.	Q45KW7
Alias	FABPI, I-FABP, MGC133132, intestinal fatty acid binding protein 2
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Protein Biological Process 3	Transport
Sample Types	serum, plasma
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 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 Pig FABP2 ELISA Kit was designed for the quantitative measurement of Pig FABP2 protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 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 pig 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)
1:1	Average %	92
	Range %	87-93
1:2	Average %	100
	Range %	97-103
1:4	Average %	85
	Range %	81-89
1:8	Average %	93
	Range %	90-96

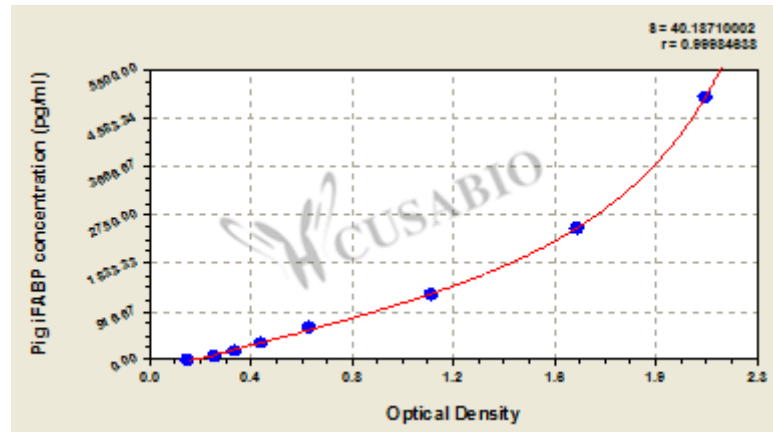
Recovery

The recovery of pig 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)	84	81-89
EDTA plasma (n=4)	99	93-103

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
5000	2.129	2.138	2.134	1.976
2500	1.628	1.656	1.642	1.484
1250	1.084	1.087	1.086	0.928
625	0.607	0.638	0.623	0.465
312	0.445	0.426	0.436	0.278
156	0.348	0.323	0.336	0.178
78	0.268	0.251	0.260	0.102
0	0.157	0.159	0.158	

Msds

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