Human insulin-like growth factors binding protein 2,IGFBP-2 ELISA Kit

Product Code	CSB-E04588h
Abbreviation	IGFBP2
Protein Biological Process 1	Growth Factor
Target Name	insulin-like growth factor binding protein 2, 36kDa
Uniprot No.	P18065
Alias	IBP2, IGF-BP53,
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Growth regulation
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.78 ng/mL-50 ng/mL
Sensitivity	0.195 ng/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	IGFBP2
Tag Info	quantitative
Protein Description	Sandwich
Description	The product CSB-E04588h is a sandwich ELISA kit developed to measure concentrations of human IGFBP2 in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of IGFBP2 in samples. The color intensity is measured at 450 nm via a microplate reader. IGFBP2 is considered a major regulator of IGFs bioavailability in the metabolic signaling pathway and controls the distribution, function, and activity of IGFs in the pericellular space. It is a developmentally regulated gene that is highly expressed in embryonic and fetal tissues and markedly decreases after birth.

Abnormal overexpression of IGFBP2 is related to an aggressive phenotype of a broad range of human cancers, including glioma, ovarian, prostate, pancreatic, breast, lung, colorectal, melanoma, and liver cancer. High circulating IGFBP2 levels may serve as a useful diagnostic or prognostic tumor biomarker in many types of cancer and are closely linked to relapse and a poorer outlook for patients with cancer.

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 human IGFBP-2 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)
1:5	Average %	97
	Range %	91-105
1:10	Average %	95
	Range %	92-98
1:20	Average %	92
	Range %	86-99
1:40	Average %	94
	Range %	89-100

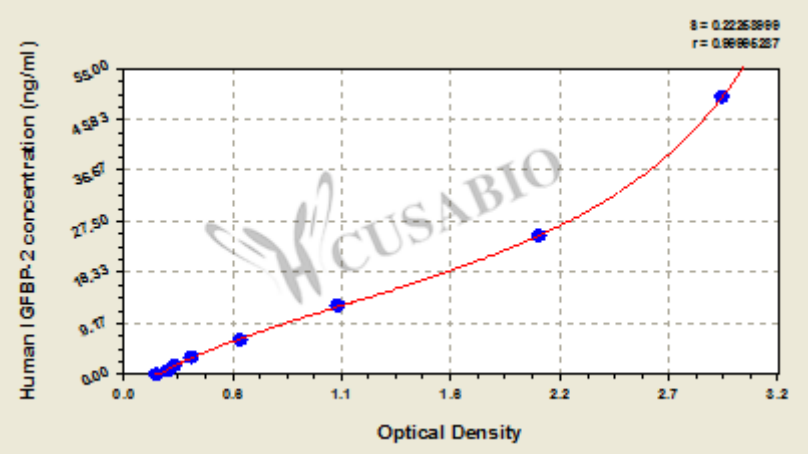
Recovery

The recovery of human IGFBP-2 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)	96	89-101
EDTA plasma (n=4)	94	88-99

Typical

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



ng/ml	OD1	OD2	Average	Corrected
50	2.935	2.952	2.944	2.767
25	2.026	2.076	2.051	1.874
12.5	1.088	1.046	1.067	0.890
6.25	0.592	0.583	0.588	0.411
3.12	0.361	0.337	0.349	0.172
1.56	0.278	0.259	0.269	0.092
0.78	0.232	0.229	0.231	0.054
0	0.176	0.177	0.177	?

Msds

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