



# Rat Insulin-like growth factor binding protein 1,IGFBP-1 ELISA Kit

<b>Product Code</b>	CSB-E07349r
<b>Abbreviation</b>	IGFBP1
<b>Target Name</b>	insulin-like growth factor binding protein 1
<b>Uniprot No.</b>	P21743
<b>Alias</b>	AFBP, IBP1, IGF-BP25, PP12, hIGFBP-1, IGF-binding protein 1 alpha-pregnancy-associated endometrial globulin amniotic fluid binding protein binding protein-25 binding protein-26 binding protein-28 gr
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Sample Types</b>	serum, plasma, cell culture supernates, tissue homogenates
<b>Detection Range</b>	15.6 pg/mL-1000 pg/mL
<b>Sensitivity</b>	3.9 pg/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	Igfbp1
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Rat IGFBP1 ELISA Kit was designed for the quantitative measurement of Rat IGFBP1 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
<b>Target Details</b>	This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors.
<b>Product Precision</b>	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 rat IGFBP-1 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)
	Average %	87
1:100	Range %	80-94
	Average %	97
1:200	Range %	91-105
	Average %	88
1:400	Range %	81-95
	Average %	100
1:800	Range %	95-94

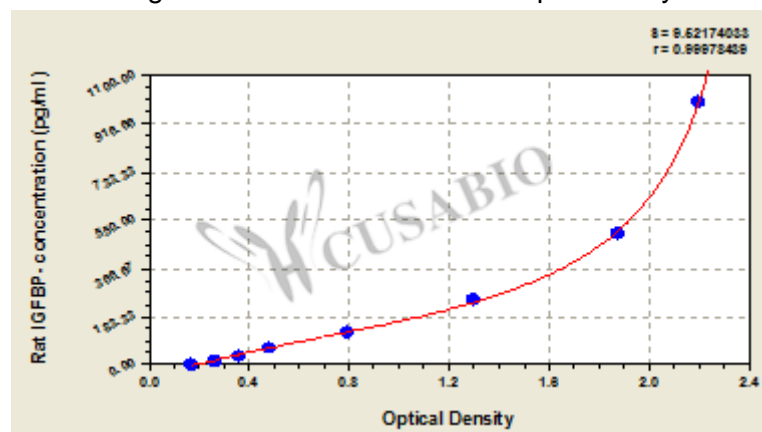
## Recovery

The recovery of rat IGFBP-1 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)	94	89-99
EDTA plasma (n=4)	92	87-97

## 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
1000	2.142	2.287	2.215	2.030
500	1.882	1.897	1.890	1.705
250	1.297	1.324	1.311	1.126
125	0.803	0.815	0.809	0.624
62.5	0.492	0.506	0.499	0.314
31.2	0.360	0.387	0.374	0.189
15.6	0.273	0.288	0.281	0.096
0	0.184	0.186	0.185	?

## Msds

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