



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

Product Code	CSB-E04587m
Abbreviation	IGFBP1
Target Name	insulin-like growth factor binding protein 1
Uniprot No.	P47876
Alias	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
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Igfbp1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse IGFBP1 ELISA Kit was designed for the quantitative measurement of Mouse IGFBP1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	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.
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 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 %	89
1:100	Range %	85-94
	Average %	102
1:200	Range %	96-107
	Average %	92
1:400	Range %	87-98
	Average %	94
1:800	Range %	89-98

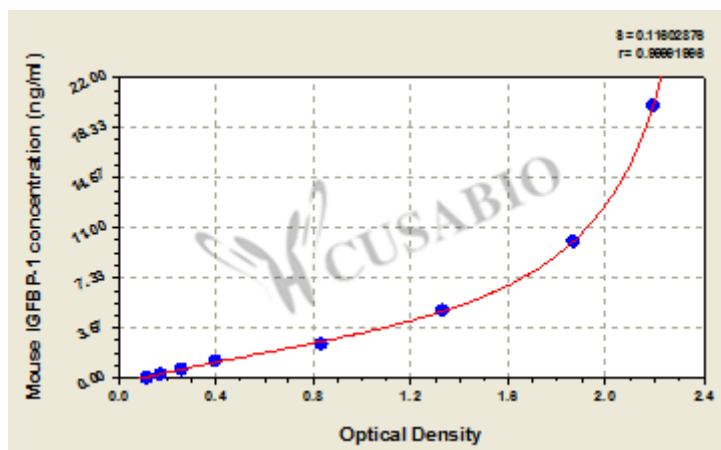
Recovery

The recovery of mouse 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)	98	93-102
EDTA plasma (n=4)	103	92-107

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
20	2.179	2.234	2.207	2.081
10	1.816	1.943	1.880	1.754
5	1.337	1.345	1.341	1.215
2.5	0.839	0.846	0.843	0.717
1.25	0.405	0.412	0.409	0.283
0.625	0.278	0.265	0.272	0.146
0.312	0.182	0.189	0.186	0.060
0	0.125	0.126	0.126	?

Msds

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