



Human insulin-like growth factors 2 receptor, IGF-2R ELISA Kit

Product Code	CSB-E11267h
Abbreviation	IGF2R
Protein Biological Process 1	Transport
Target Name	insulin-like growth factor 2 receptor
Uniprot No.	P11717
Alias	CD222, CIMPR, M6P-R, MPR1, MPRI, cation-independent mannose-6 phosphate receptor
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Transport
Sample Types	serum, plasma, tissue homogenates
Detection Range	312.5 pg/mL-20000 pg/mL
Sensitivity	78.1 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	IGF2R
Tag Info	quantitative
Protein Description	Sandwich
Target Details	This protein is a receptor for both, insulin-like growth factor 2 (IGF2) and mannose 6-phosphate (M6P). The IGF2 and M6P binding sites are located on different segments of the receptor. This receptor functions in the intracellular trafficking of lysosomal enzymes, the activation of transforming growth factor beta, and the degradation of IGF2. In mice, the homologous gene is expressed only from the maternal chromosome.
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 IGF-2R 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 %	97
1:1	Range %	92-103
	Average %	90
1:2	Range %	83-96
	Average %	102
1:4	Range %	99-105
	Average %	86
1:8	Range %	81-92

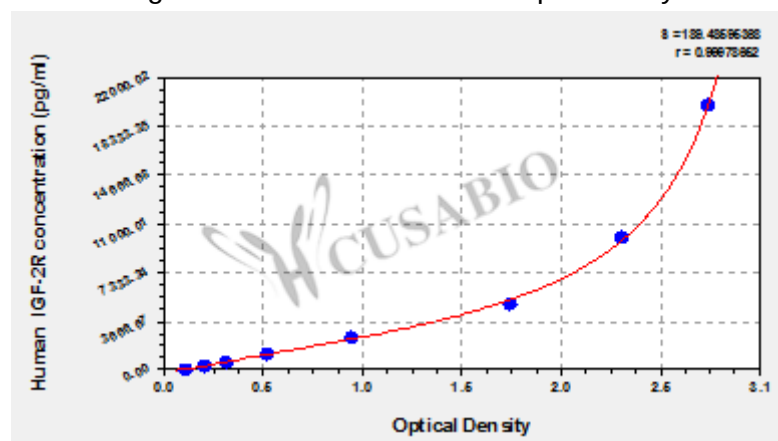
Recovery

The recovery of human IGF-2R 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)	92	87-98
EDTA plasma (n=4)	89	82-95

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
20000	2.821	2.752	2.787	2.666
10000	2.420	2.279	2.350	2.229
5000	1.764	1.789	1.777	1.656
2500	0.941	1.002	0.972	0.851
1250	0.527	0.555	0.541	0.420
625	0.318	0.346	0.332	0.211
312.5	0.214	0.225	0.220	0.099
0	0.126	0.116	0.121	?

Msds

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