



Human Glypican-4(GPC4) ELISA kit

Product Code	CSB-EL009706HU
Abbreviation	GPC4
Target Name	glypican 4
Uniprot No.	O75487
Alias	RP6-198C21.1, K-glypican, dJ900E8.1 (glypican 4) glypican proteoglycan 4
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 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	GPC4
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GPC4 ELISA Kit was designed for the quantitative measurement of Human GPC4 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.
Target Details	Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The GPC4 gene is adjacent to the 3' end of GPC3 and may also play a role in Simpson-Golabi-Behmel syndrome.
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 GPC4 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 %	96
	Range %	92-104
1:2	Average %	92
	Range %	88-96
1:4	Average %	87
	Range %	81-94
1:8	Average %	98
	Range %	92-106

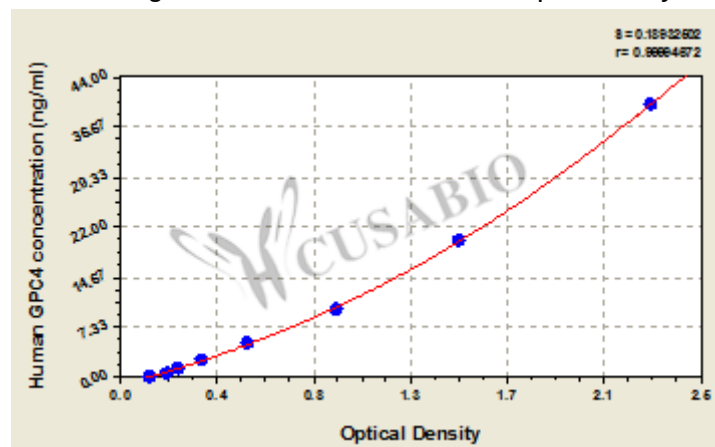
Recovery

The recovery of human GPC4 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)	90	85-96
EDTA plasma (n=4)	95	91-99

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
40	2.254	2.355	2.305	2.163
20	1.428	1.528	1.478	1.336
10	0.935	0.956	0.946	0.804
5	0.556	0.567	0.562	0.420
2.5	0.372	0.361	0.367	0.225
1.25	0.268	0.257	0.263	0.121
0.625	0.215	0.212	0.214	0.072
0	0.142	0.141	0.142	?

Msds

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