



Rat Glypican-3(GPC3) ELISA kit

Product Code	CSB-EL009705RA
Abbreviation	GPC3
Target Name	glypican 3
Uniprot No.	P13265
Alias	AC002420.1, DGSX, GTR2-2, MXR7, OCI-5, SDYS, SGB, SGBS, SGBS1, glypican proteoglycan 3 heparan sulphate proteoglycan intestinal protein OCI-5 secreted glypican-3
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Gpc3
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat GPC3 ELISA Kit was designed for the quantitative measurement of Rat GPC3 protein in serum, plasma, 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.

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. This protein can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphia syndrome. Alternative splicing results in multiple transcript variants.



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 rat GPC3 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 %	95
	Range %	85-99
1:2	Average %	107
	Range %	97-110
1:4	Average %	89
	Range %	83-93
1:8	Average %	99
	Range %	91-104

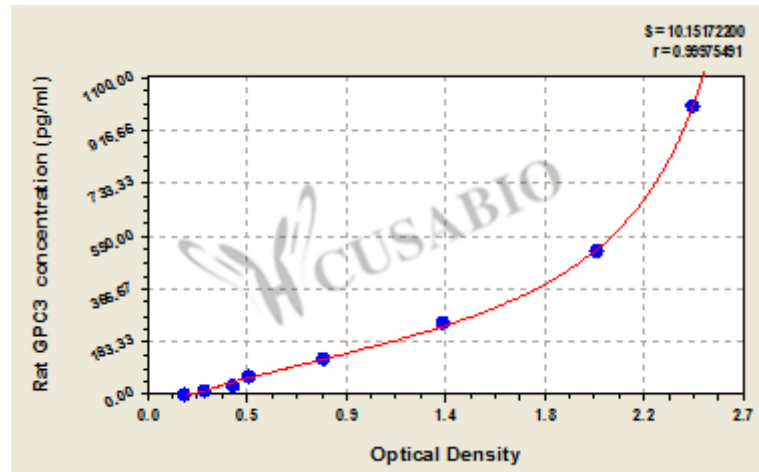
Recovery

The recovery of rat GPC3 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	84-99
EDTA plasma (n=4)	100	94-106

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	2.506	2.415	2.461	2.280
500	2.091	1.974	2.033	1.852
250	1.353	1.332	1.343	1.162
125	0.813	0.798	0.806	0.625
62.5	0.484	0.456	0.470	0.289
31.2	0.408	0.392	0.400	0.219
15.6	0.274	0.267	0.271	0.090
0	0.183	0.179	0.181	

Msds

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