Human Glutathione peroxidase 2(GPX2) ELISA kit

Product Code	CSB-EL009867HU
Abbreviation	GPX2
Target Name	glutathione peroxidase 2 (gastrointestinal)
Uniprot No.	P18283
Alias	GI-GPx, GPRP, GSHPX-GI, GSHPx-2, gastrointestinal glutathione peroxidase 2|glutathione peroxidase 2|glutathione peroxidase-related protein 2
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	25 pg/mL-1600 pg/mL
Sensitivity	6.25 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	Metabolism
Gene Names	GPX2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human GPX2 ELISA Kit was designed for the quantitative measurement of Human GPX2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 25 pg/mL-1600 pg/mL and the sensitivity is 6.25 pg/mL.
Target Details	This gene is a member of the glutathione peroxidase family and encodes a selenium-dependent glutathione peroxidase that is one of two isoenzymes responsible for the majority of the glutathione-dependent hydrogen peroxide-reducing activity in the epithelium of the gastrointestinal tract. Studies in knockout mice indicate that mRNA expression levels respond to luminal microflora, suggesting a role of the ileal glutathione peroxidases in preventing inflammation in the GI tract.
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 GPX2 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 %	91
	Range %	86-95
1:2	Average %	102
	Range %	97-106
1:4	Average %	91
	Range %	85-95
1:8	Average %	98
	Range %	91-101

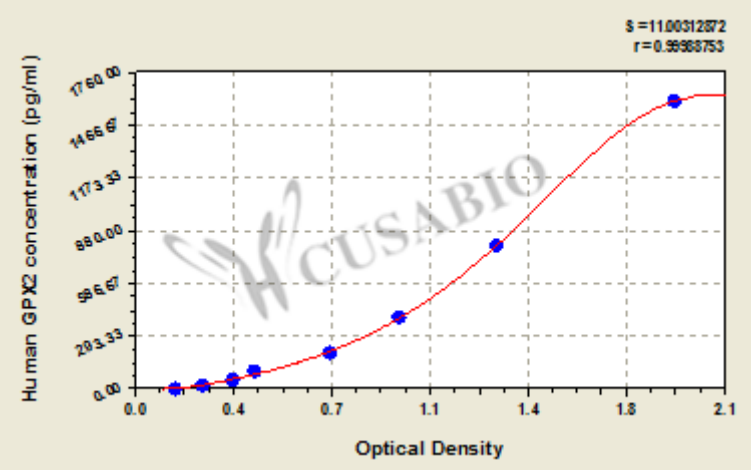
Recovery

The recovery of human GPX2 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)	95	89-98
EDTA plasma (n=4)	86	81-89

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
1600	1.958	1.912	1.935	1.779
800	1.325	1.276	1.301	1.145
400	0.945	0.963	0.954	0.798
200	0.714	0.702	0.708	0.552
100	0.434	0.442	0.438	0.282
50	0.367	0.353	0.360	0.204
25	0.257	0.248	0.253	0.097
0	0.157	0.155	0.156	

Msds

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