



Human Glutathione peroxidase 3(GPX3) ELISA kit

Product Code	CSB-E09496h
Abbreviation	GPX3
Target Name	glutathione peroxidase 3
Uniprot No.	P22352
Alias	GPx-P, GSHPx-3, GSHPx-P, extracellular glutathione peroxidase glutathione peroxidase 3
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	15.6 μ IU/mL-1000 μ IU/mL
Sensitivity	3.9 μ IU/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	Cancer
Gene Names	GPX3
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human GPX3 ELISA Kit was designed for the quantitative measurement of Human GPX3 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 μ IU/mL-1000 μ IU/mL and the sensitivity is 3.9 μ IU/mL .

Target Details

This gene product belongs to the glutathione peroxidase family, which functions in the detoxification of hydrogen peroxide. It contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal.

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 GPX3 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)
1:1000	Average %	93
	Range %	89-95
1:2000	Average %	104
	Range %	100-107
1:4000	Average %	92
	Range %	89-96
1:8000	Average %	98
	Range %	95-103

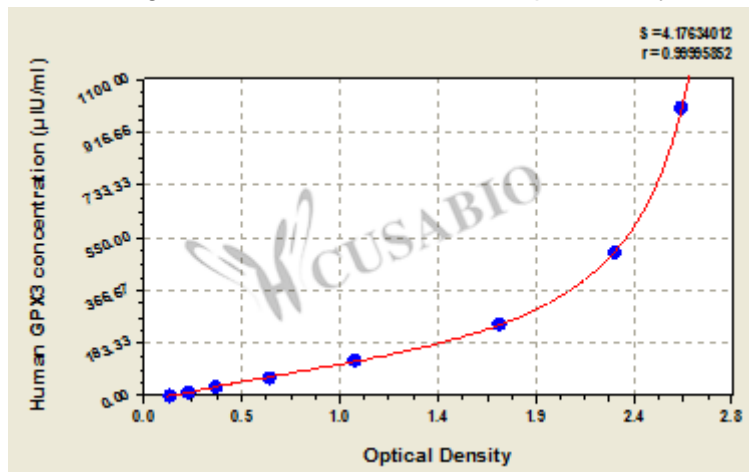
Recovery

The recovery of human GPX3 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	90-98
EDTA plasma (n=4)	96	94-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



μIU/ml	OD1	OD2	Average	Corrected
1000	2.630	2.566	2.598	2.458
500	2.330	2.224	2.277	2.137
250	1.736	1.704	1.720	1.580
125	1.000	1.052	1.026	0.886
62.5	0.622	0.608	0.615	0.475
31.25	0.351	0.369	0.360	0.220
15.6	0.234	0.222	0.228	0.088
0	0.142	0.138	0.140	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E09496h.pdf","filename":"MSDS"}}