Human peroxiredoxin 2 (PRDX2) ELISA kit

Product Code	CSB-EL018654HU
Abbreviation	PRDX2
Target Name	peroxiredoxin 2 (PRDX2)
Uniprot No.	P32119
Alias	PRDX2, MGC4104, NKEFB, PRP, PRX2, PRXII, TDPX1, TSA, natural killer-enhancing factor B|thiol-specific antioxidant 1|thioredoxin peroxidase 1|thioredoxin-dependent peroxide reductase 1|torin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 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	Cell Biology
Gene Names	PRDX2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human PRDX2 ELISA Kit was designed for the quantitative measurement of Human PRDX2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 47 pg/mL-3000 pg/mL and the sensitivity is 11.75 pg/mL .
Target Details	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. The crystal structure of this protein has been resolved to 2.7 angstroms. Transcript variants encoding distinct isoforms have been identified for this gene.
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 PRDX2 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 %	85
	Range %	81-95
1:2	Average %	97
	Range %	91-105
1:4	Average %	96
	Range %	92-108
1:8	Average %	93
	Range %	86-102

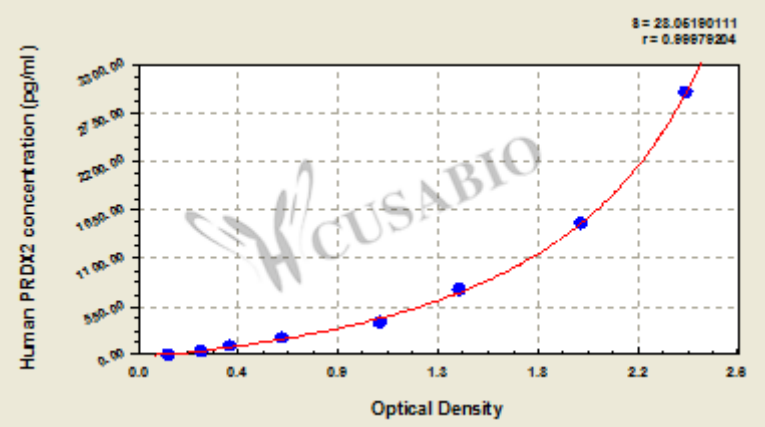
Recovery

The recovery of human PRDX2 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	89-98
EDTA plasma (n=4)	97	92-100

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
3000	2.381	2.419	2.400	2.253
1500	1.935	1.952	1.944	1.797
750	1.427	1.403	1.415	1.268
375	1.068	1.059	1.064	0.917
187.5	0.627	0.65	0.639	0.492
94	0.412	0.423	0.418	0.271
47	0.295	0.28	0.288	0.141
0	0.149	0.145	0.147	?

Msds

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