



# Human Peroxiredoxin 4(PRDX4) ELISA Kit

<b>Product Code</b>	CSB-E13442h
<b>Abbreviation</b>	PRDX4
<b>Target Name</b>	peroxiredoxin 4
<b>Uniprot No.</b>	Q13162
<b>Alias</b>	AOE37-2, PRX-4, thioredoxin peroxidase (antioxidant enzyme)
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Sample Types</b>	serum, plasma
<b>Detection Range</b>	0.625 ng/mL-40 ng/mL
<b>Sensitivity</b>	0.156 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Cell Biology
<b>Gene Names</b>	PRDX4
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Human PRDX4 ELISA Kit was designed for the quantitative measurement of Human PRDX4 protein in serum, plasma. 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.
<b>Target Details</b>	This protein is an antioxidant enzyme and belongs to the peroxiredoxin family. The protein is localized to the cytoplasm. Peroxidases of the peroxiredoxin family reduce hydrogen peroxide and alkyl hydroperoxides to water and alcohol with the use of reducing equivalents derived from thiol-containing donor molecules. This protein has been found to play a regulatory role in the activation of the transcription factor NF-kappaB.
<b>Product Precision</b>	<p>Intra-assay Precision (Precision within an assay): CV%&lt;8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%&lt;10%</p> <p>Three samples of known concentration were tested in twenty assays to assess.</p>



## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human PRDX4 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 %	88
	Range %	84-93
1:2	Average %	104
	Range %	100-108
1:4	Average %	83
	Range %	80-86
1:8	Average %	94
	Range %	91-97

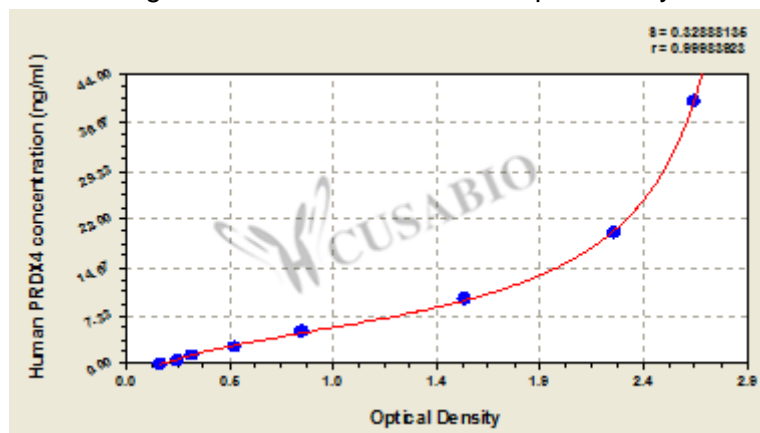
## Recovery

The recovery of human PRDX4 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)	85	81-89
EDTA plasma (n=4)	92	86-99

## 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	2.648	2.609	2.629	2.459
20	2.224	2.298	2.261	2.091
10	1.545	1.604	1.575	1.405
5	0.816	0.835	0.826	0.656
2.5	0.531	0.501	0.516	0.346
1.25	0.325	0.317	0.321	0.151
0.625	0.241	0.260	0.251	0.081
0	0.169	0.171	0.170	

## Msds

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