Human Eosinophil peroxidase(EPX) ELISA kit

Product Code	CSB-EL007756HU
Abbreviation	EPX
Protein Biological Process 1	Oxidative Stress
Target Name	eosinophil peroxidase
Uniprot No.	P11678
Alias	EPO, EPP, EPX-PEN
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Hydrogen peroxide
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	3.12 ng/mL-200 ng/mL
Sensitivity	0.78 ng/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	EPX
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human EPX ELISA Kit was designed for the quantitative measurement of Human EPX protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/mL.
Target Details	This gene is a member of the peroxidase gene family and is expressed in eosinophils. The encoded precursor protein is processed into covalently attached heavy and light chains to form the mature enzyme, which functions as an oxidant. The enzyme is released at sites of parasitic infection or allergen stimulation to mediate lysis of protozoa or parasitic worms. The gene is found in a cluster of three peroxidase genes at chromosome 17q23. Mutations in this gene result in eosinophil peroxidase deficiency.

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 EPX 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 %	87
	Range %	80-95
1:2	Average %	95
	Range %	90-100
1:4	Average %	92
	Range %	87-99
1:8	Average %	97
	Range %	92-102

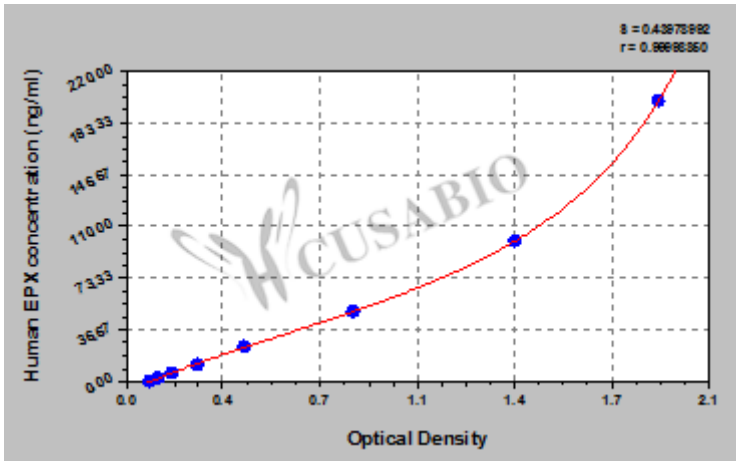
Recovery

The recovery of human EPX 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)	90	86-96
EDTA plasma (n=4)	95	90-101

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
200	1.952	1.872	1.912	1.818
100	1.411	1.385	1.398	1.304
50	0.842	0.804	0.823	0.729
25	0.444	0.419	0.432	0.338
12.5	0.272	0.254	0.263	0.169
6.25	0.181	0.169	0.175	0.081
3.12	0.131	0.121	0.126	0.032
0	0.097	0.091	0.094	?

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL007756HU.pdf","filename":"MSDS"}}