



Human Poly ADP ribose polymerase,PARP ELISA Kit

Product Code	CSB-E10705h
Abbreviation	PARP1
Protein Biological Process 1	DNA damage/DNA repair
Target Name	poly (ADP-ribose) polymerase 1
Uniprot No.	P09874
Alias	RP11-125A15.2, ADPRT, ADPRT1, PARP, PARP-1, PPOL, pADPRT-1, ADP-ribosyltransferase (NAD ⁺ ; poly (ADP-ribose) polymerase) ADP-ribosyltransferase NAD(+) poly (ADP-ribose) polymerase family, member 1 po
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	DNA damage
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Epigenetics and Nuclear Signaling
Gene Names	PARP1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human PARP1 ELISA Kit was designed for the quantitative measurement of Human PARP1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	This gene encodes a chromatin-associated enzyme, poly(ADP-ribosyl)transferase, which modifies various nuclear proteins by poly(ADP-ribosyl)ation. The modification is dependent on DNA and is involved in the



regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes.

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 PARP 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 %	81-89
1:2	Average %	92
	Range %	87-96
1:4	Average %	100
	Range %	97-103
1:8	Average %	95
	Range %	91-99

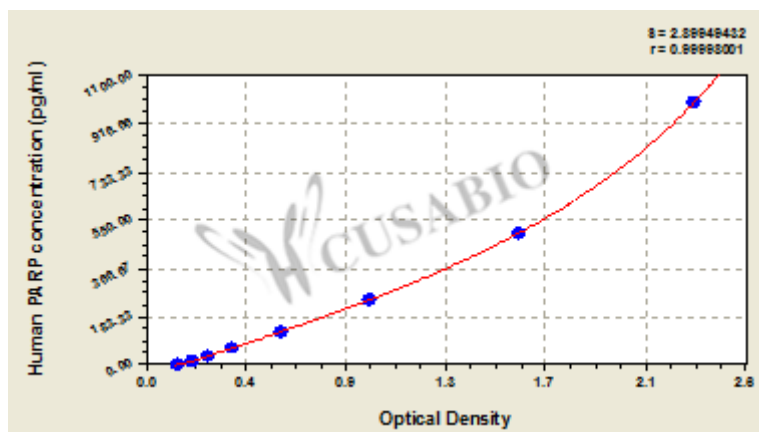
Recovery

The recovery of human PARP 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)	101	97-105
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.



pg/ml	OD1	OD2	Average	Corrected
1000	2.301	2.369	2.335	2.188
500	1.582	1.598	1.590	1.443
250	0.948	0.968	0.958	0.811
125	0.578	0.585	0.582	0.435
62.5	0.389	0.368	0.379	0.232
31.25	0.287	0.264	0.276	0.129
15.6	0.205	0.213	0.209	0.062
0	0.147	0.146	0.147	

Msds

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