



Human Perforin-1 (PRF1/PFP) ELISA kit

Product Code	CSB-E09313h
Abbreviation	PRF1
Protein Biological Process 1	Immunity
Target Name	perforin 1 (pore forming protein)
Uniprot No.	P14222
Alias	RP11-710A11.3, FLH2, HPLH2, MGC65093, P1, PFN1, PFP, OTTHUMP00000019759 cytolysin lymphocyte pore forming protein perforin 1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Cytolysis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Immunology
Gene Names	PRF1
Tag Info	quantitative
Protein Description	Sandwich

Description	This Human PRF1 ELISA Kit was designed for the quantitative measurement of Human PRF1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
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Target Details	This protein has structural and functional similarities to complement component 9 (C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. Defects in this gene cause familial hemophagocytic lymphohistiocytosis type 2 (HPLH2), a rare and lethal autosomal recessive disorder of early childhood. Alternative splicing
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results in multiple transcript variants encoding the same protein.

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 PRF1 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 %	97
	Range %	91-100
1:2	Average %	100
	Range %	95-104
1:4	Average %	92
	Range %	85-95
1:8	Average %	99
	Range %	92-103

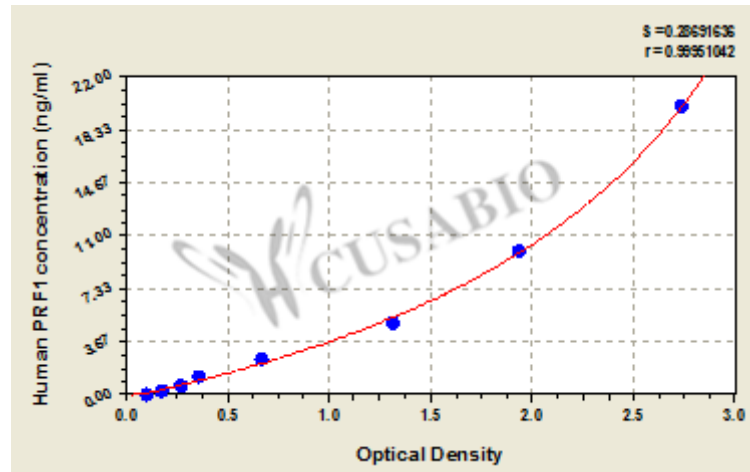
Recovery

The recovery of human PRF1 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)	91	85-96
EDTA plasma (n=4)	90	82-94

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
20	2.764	2.666	2.715	2.602
10	1.912	1.932	1.922	1.809
5	1.301	1.313	1.307	1.194
2.5	0.689	0.657	0.673	0.560
1.25	0.376	0.358	0.367	0.254
0.63	0.281	0.272	0.277	0.164
0.312	0.189	0.184	0.187	0.074
0	0.114	0.112	0.113	

Msds

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