



Human P-Selectin ELISA kit

Product Code	CSB-E04708h
Abbreviation	SELP
Target Name	P-Selectin
Uniprot No.	P16109
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.9 ng/mL-60 ng/mL
Sensitivity	0.225 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	SELP
Tag Info	quantitative
Protein Description	Sandwich

Description

The human P-Selectin (SELP) ELISA kit is suitable for the quantitative determination of human SELP in different sample types, including serum, plasma, and tissue homogenates. This assay employs the bi-antibody sandwich technique and enzyme-substrate chromogenic reaction to quantify antigen levels in the sample. The amount of synthesized colored products is positively related to the analyte of interest in the sample.

SELP is generated by activated platelets and endothelial cells and then stored in the α granules of platelets and in the Weibel-Palade bodies of endothelial cells (EC). It plays a critical role in the initial adhesion and rolling of platelets and leukocytes to sites of injury during inflammation via its receptor PSGL-1. SELP is also involved in hemostasis and thrombosis through PSGL-1 signaling in leukocytes and platelets and GPIIb α in platelets. It is necessary for the progression of atherosclerosis.

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 P-selectin 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)
	Average %	86
1:5	Range %	80-92
	Average %	97
1:10	Range %	91-105
	Average %	98
1:20	Range %	92-110
	Average %	95
1:40	Range %	86-98

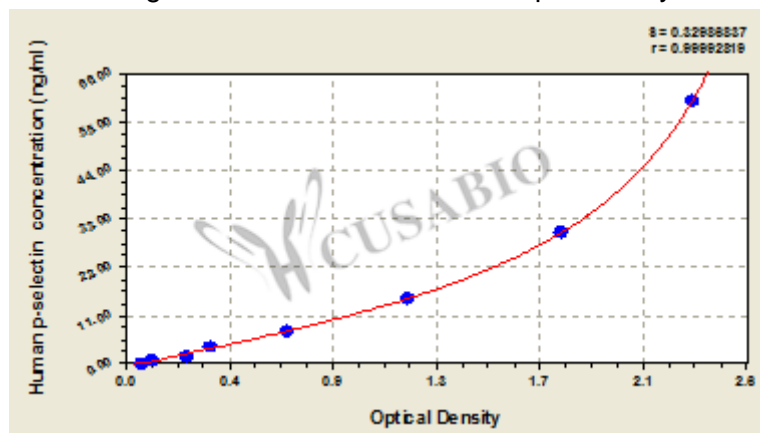
Recovery

The recovery of human P-selectin 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)	97	90-104
EDTA plasma (n=4)	96	87-102

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
60	2.305	2.368	2.337	2.269
30	1.795	1.805	1.800	1.732
15	1.146	1.187	1.167	1.099
7.5	0.653	0.689	0.671	0.603
3.75	0.344	0.358	0.351	0.283
1.8	0.245	0.264	0.255	0.187
0.9	0.110	0.116	0.113	0.045
0	0.066	0.069	0.068	?

Msds

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