Rat soluble E-selectin,sE-selectin ELISA Kit

Product Code	CSB-E07996r
Abbreviation	SELE
Protein Biological Process 1	Cell Adhesion
Target Name	selectin E
Uniprot No.	P98105
Alias	RP1-117P20.2, CD62E, ELAM, ELAM1, ESEL, LECAM2, endothelial adhesion molecule 1|leukocyte endothelial cell adhesion molecule 2
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 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	Immunology
Gene Names	Sele
Tag Info	quantitative
Protein Description	Sandwich

Description

The Rat soluble E-selectin (sE-selectin) ELISA Kit is a powerful tool for immunology researchers to measure the levels of sE-selectin in a variety of sample types from Rattus norvegicus (Rat).

This ELISA kit has a detection range of 78 pg/mL to 5000 pg/mL and a sensitivity of 19.5 pg/mL, providing accurate and reliable results for even low levels of E-selectin. The assay time is 1-5 hours, and the sample volume required is only 50-100ul, making it a convenient and easy-to-use product.

The sE-selectin ELISA Kit utilizes a sandwich assay principle, where the E-selectin antigen is captured by a specific antibody and detected by a second antibody labeled with a detection reagent. The detection wavelength is 450 nm,

providing a reliable and consistent readout.

This ELISA kit is suitable for a range of sample types, including serum, plasma, cell culture supernates, and tissue homogenates, making it a versatile solution for researchers in the field of immunology. It has been cited in over 9 publications, highlighting its reliability and utility in research.

Target Details

This protein is found in cytokine-stimulated endothelial cells and is thought to be responsible for the accumulation of blood leukocytes at sites of inflammation by mediating the adhesion of cells to the vascular lining. It exhibits structural features such as the presence of lectin- and EGF-like domains followed by short consensus repeat (SCR) domains that contain 6 conserved cysteine residues. These proteins are part of the selectin family of cell adhesion molecules. Adhesion molecules participate in the interaction between leukocytes and the endothelium and appear to be involved in the pathogenesis 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 rat sE-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)
1:5	Average %	92
	Range %	88-108
1:10	Average %	94
	Range %	91-98
1:20	Average %	96
	Range %	89-100
1:40	Average %	84
	Range %	80-88

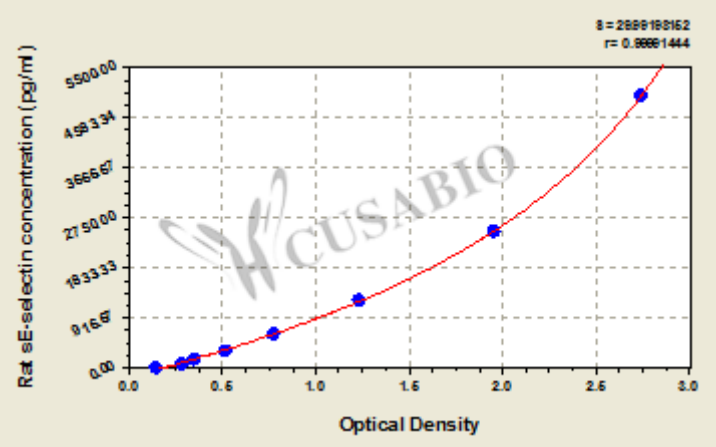
Recovery

The recovery of rat sE-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)	99	93-105
EDTA plasma (n=4)	94	90-98

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
5000	2.746	2.645	2.696	2.542
2500	1.976	1.875	1.926	1.772
1250	1.228	1.204	1.216	1.062
625	0.782	0.761	0.772	0.618
312	0.522	0.511	0.517	0.363
156	0.363	0.352	0.358	0.204
78	0.290	0.285	0.288	0.134
0	0.154	0.153	0.154	?

Msds

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