

Rat E-Selectin/CD62e/SELE ELISA Kit | CD62e/SELE elisa kit

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CATALOG #
AAA258499

REACTIVITY
Rat

PRODUCT SYNONYMS

E-Selectin/CD62e/SELE; Rat E-Selectin/CD62e/SELE ELISA Kit; E-Selectin ELISA Kit; Rat; selectin E; CD62e/SELE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	For the quantitative determination of Rat E-Selectin/CD62e/SELE concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	23.44-1500pg/mL
Sensitivity	3.78pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

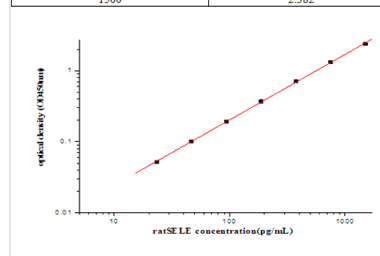
IMAGES

Recombinant human			
CD62E			
Recombinant mouse			
SELE			
Recombinant rat			
IL1B	IL2	IL-10	IL12B
TNFa	IL6	IFN gama	CCL3
TIMP1	CSF2	VEGF164	SELP

Application Data

This assay recognizes both recombinant and natural Rat SELE. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
23.44	0.052
46.88	0.101
93.75	0.193
187.5	0.369
375	0.714
750	1.318
1500	2.382



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for CD62e/SELE elisa kit	This E-Selectin ELISA Kit, Rat is an enzyme-linked immunosorbent assay for the quantitative measurement of Rat E-Selectin protein in Serum. It contains recombinant Rat E-Selectin, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: E-selectin, also known as endothelial leukocyte adhesion molecule-1 (ELAM-1) and CD62E, is an inducible adhesion molecule that is expressed on the surfaces of stimulated vascular endothelial cells and is sometimes involved in cancer cell metastasis. E-selectin exhibits a complex mosaic structure consisting of a large extracellular region comprised of a lectin domain, an EGF-like domain, and a short consensus repeat (SCR) domain, followed by a transmembrane region and a relatively short (32 aa) cytoplasmic tail. As a member of the LEC-CAM or selectin family, E-selectin recognises and binds to sialylated carbohydrates including members of the Lewis X and Lewis A families found on monocytes, granulocytes, and T-lymphocytes. E-selectin supports rolling and stable arrest of leukocytes on activated vascular endothelium, and furthermore, it was indicated that it can also transduce an activating stimulus via the MAPK cascade into the endothelial cell during leukocyte adhesion. E-selectin regulates adhesive interactions between certain blood cells and endothelium. The soluble form of E selectin (sE-selectin) is a marker of endothelial activation, and has a potential role in the pathogenesis of cardiovascular disease as raised levels have been found in hypertension, diabetes and hyperlipidemia, although its association in established atherosclerosis disease and its value as a prognostic factor is more controversial. Soluble E-selectin is inversely associated with the muscular component of the left ventricle, thereby suggesting that the lack of such a reparative factor may be associated with cardiac remodeling in end-stage renal disease (ESRD) patients. Besides, this adhesion molecule appears to be involved in the pathogenesis of atherosclerosis.
References	Roldn V, et al. (2003) Soluble E-selectin in cardiovascular disease and its risk factors. A review of the literature. <i>Thromb Haemost.</i> 90(6): 1007-20. Kawase J, et al. (2009) Increase in E-selectin expression in umbilical vein endothelial cells by anticancer drugs and inhibition by cimetidine. <i>Oncol Rep.</i> 22(6): 1293-7. Matsumoto K, et al. (2010) Soluble adhesion molecule E-selectin predicts cardiovascular events in Japanese patients with type 2 diabetes mellitus. <i>Metabolism.</i> 59(3): 320-4. Stancanelli B, et al. (2010) Soluble e-selectin is an inverse and independent predictor of left ventricular wall thickness in end-stage renal disease patients. <i>Nephron Clin Pract.</i> 114(1): c74-80.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.