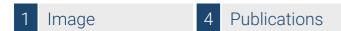


Datasheet for ABIN411351

P-Selectin ELISA Kit





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Quantity:	96 tests
Target:	P-Selectin (SELP)
Binding Specificity:	AA 42-771
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human P-Selectin	
Brand:	PicoKine™	
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Immunogen:	Expression system for standard: NSO Immunogen sequence: W42-A771	
Specificity:	Expression system for standard: NSO Immunogen sequence: W42-A771	
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.	

Product Details

Sensitivity:	<5pg/mL	
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl	
Target Details		
Target:	P-Selectin (SELP)	
Alternative Name:	SELP (SELP Products)	
Background:	Protein Function: Ca(2+)-dependent receptor for myeloid cells that binds to carbohydrates on neutrophils and monocytes. Mediates the interaction of activated endothelial cells or platelets with leukocytes. The ligand recognized is sialyl-Lewis X. Mediates rapid rolling of leukocyte rolling over vascular surfaces during the initial steps in inflammation through interaction with PSGL1. Background: P-selectin, also called GMP-140, CD62, or selectin P, is a 140-kD adhesion molecule, expressed at the surface of activated cells, that mediates the interaction of activated endothelial cells or platelets with leukocytes. It is stored in secretory granules and expressed at the plasma membrane after cell activation. It is known to play an important role in atherosclerosis. The major ligand for P-selectin on leukocytes is P-selectin glycoprotein ligand-1(PSGL-1). The standard product used in this kit is recombinant human P-Selectin, excluding intercellular P-Selectin and transmembrane domain. It has 730 amino acids sequence with the molecular mass of 80 KDa. Synonyms: P-selectin,CD62 antigen-like family member P,Granule membrane protein 140,GMP-140,Leukocyte-endothelial cell adhesion molecule 3,LECAM3,Platelet activation dependent granule-external membrane protein,PADGEM,CD62P,SELP,GMRP, GRMP, Full Gene Name: P-selectin Cellular Localisation: Membrane, Single-pass type I membrane protein.	
Gene ID:	6403	
UniProt:	P16109	
Application Details		
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.	

Application Details

Comment:	Sequence similarities: Belongs to the selectin/LECAM family.		
	Tissue Specificity: Stored in the alpha-granules of platelets and Weibel-Palade bodies of		
	endothelial cells. Upon cell activation by agonists, P-selectin is transported rapidly to the cell		
	surface.		
Plate:	Pre-coated		
Protocol:	human P-Selectin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent		
	assay technology. A monoclonal antibody from mouse specific for P-Selectin has been		
	precoated onto 96-well plates. Standards(NSO, W42-A771) and test samples are added to the		
	wells, a biotinylated detection polyclonal antibody from goat specific for P-Selectin is added		
	subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase		
	Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRF		
	substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to		
	produce a blue color product that changed into yellow after adding acidic stop solution. The		
	density of yellow is proportional to the human P-Selectin amount of sample captured in plate.		
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL,		
	125pg/mL, 62.5pg/mL human P-Selectin standard solutions into the precoated 96-well plate.		
	Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each		
	properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA,		
	citrate) to each empty well. See "Sample Dilution Guideline" above for details. It is		
	recommended that each human P-Selectin standard solution and each sample be measured in		
	duplicate.		
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 675, Standard deviation: 29.7, CV(%): 4.4		
	• Sample 2: n=16, Mean(pg/ml): 1105, Standard deviation: 64.09, CV(%): 5.8		
	 Sample 3: n=16, Mean(pg/ml): 2622, Standard deviation: 146.8, CV(%): 5.6, Sample 1: n=24, Mean(pg/ml): 252, Standard deviation: 22.2, CV(%): 6.2 		
	 Sample 1: n=24, Mean(pg/ml): 858, Standard deviation: 22.2, CV(%): 6.2 Sample 2: n=24, Mean(pg/ml): 1657, Standard deviation: 64.52, CV(%): 6.7 		
	• Sample 3: n=24, Mean(pg/ml): 3183, Standard deviation: 144.8, CV(%): 7.3		
Restrictions:	For Research Use only		
Handling			
Handling Advice:	Avoid multiple freeze-thaw cycles.		
Storage:	-20 °C,4 °C		
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles		

Expiry Date:

12 months

Publications

Product cited in:

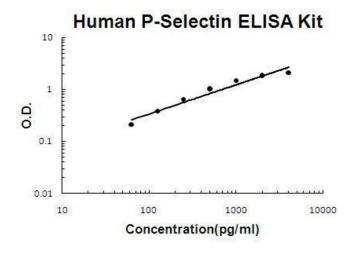
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Li, Ben, Yuan, Liu, Wu, Xu, Zhang: "Recruitment of HIV-1 target cells at topical mucosal sites: a sensitive and early marker for determining the safety of microbicide candidates." in: **Emerging microbes & infections**, Vol. 2, Issue 7, pp. e42, (2015) (PubMed).

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Zhong, He, Yang, Bao, Zhang, Zhou, Chen, Li, Han, Yang, Sun, Cao, Li, Shi, Jiang, Zhang, Yan: "L-selectin and P-selectin are novel biomarkers of cervicovaginal inflammation for preclinical mucosal safety assessment of anti-HIV-1 microbicide." in: **Antimicrobial agents and chemotherapy**, Vol. 56, Issue 6, pp. 3121-32, (2012) (PubMed).

Images



ELISA

Image 1. Human P-Selectin PicoKine ELISA Kit standard curve