abcam

Product datasheet

Human VCAM1 ELISA Kit ab223591

重组 SimpleStep ELISA

<u>3 References</u> 6 图像

概述								
产品名称	人VCAM1 ELISA试剂盒							
检测方法	Colorimetric							
精确度								批次内
	样品	n	Mean		SD		CV%	
	Serum	9					1.4%	
								批次间
	样品	n	Mean		SD		CV%	
	Serum	3					5.23%	
样品类型	Cell culture supernatan	it, Serum, He	ep Plasm	na, EDTA Plasr	na, Cit p	olasma		
检测类型	Sandwich (quantitative)							
灵敏度	37 pg/ml							
范围	0.14 ng/ml - 9 ng/ml							
回收率							特	定样本回收率
	样品类型			平均%		范围		
	Serum			93		88% - 1	04%	

101

94

97

95

1h 30m

One step assay

Cell culture media

Hep Plasma

EDTA Plasma

Cit plasma

92% - 108%

89% - 103%

88% - 109%

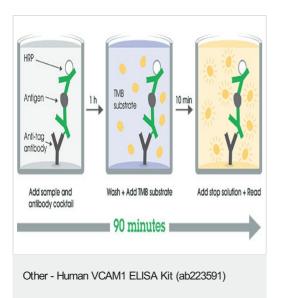
92% - 102%

种属反 应性	与反应: Human			
产品概述	Human VCAM1 ELISA Kit (ab223591) is a single-wash 90 min sandwich ELISA designed for the quantitative measurement of VCAM1 protein in cit plasma, edta plasma, hep plasma, serum, and cell culture supernatant. It uses our proprietary SimpleStep ELISA® technology. Quantitate Human VCAM1 with 37 pg/ml sensitivity.			
	mpleStep ELISA® technology employs capture antibodies conjugated to an affinity tag that is cognized by the monoclonal antibody used to coat our SimpleStep ELISA® plates. This proach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a ngle step, significantly reducing assay time. See the SimpleStep ELISA® protocol summary in a image section for further details. Our SimpleStep ELISA® technology provides several enefits:			
	 Single-wash protocol reduces assay time to 90 minutes or less High sensitivity, specificity and reproducibility from superior ant Fully validated in biological samples 96-wells plate breakable into 12 x 8 wells strips 			
	A 384-well SimpleStep ELISA® microplate (ab203359) is available to 96-well microplate provided with SimpleStep ELISA® kits.	to use as an alternative to the		
说 明	Vascular cell adhesion molecule 1 (VCAM1) is a type I transmembrane glycoprotein that facilitates the adhesion of lymphocytes, eosinophils, monocytes and basophils to vascular endothelium. VCAM1 is primarily expressed by endothelial cells, but smooth muscle cells, macrophages, oocytes, Sertoli cells, and activated neurons are all known expressers. VCAM1 expression is stimulated by cytokines, including TNF- a and IL-1, and alternatively spliced forms of the protein are known to occur. VCAM1 may be involved in cardiovascular development, atherosclerosis and rheumatoid arthritis.			
平台	Pre-coated microplate (12 x 8 well strips)			
性能				
存放说明	Store at +4°C. Please refer to protocols.			
组 件		1 x 96 tests		
10X Human VCAM1 Detector Antibody		1 x 600µl		
10X Wash Buffer PT (ab206977)		1 x 20ml		
Antibody Diluent 5BI		1 x 6ml		
Human VCAM1 Capture Antibody (Lyophilized)		1 vial		
Human VCAM1 Lyophilized Recombinant Protein		2 vials		
Plate Seals		1 unit		
		1 diffe		

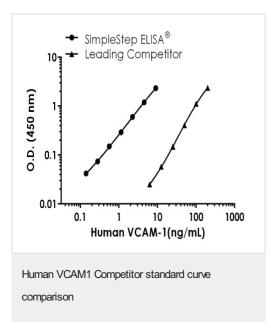
组件	1 x 96 tests	
SimpleStep Pre-Coated 96-Well Microplate (ab206978)	1 unit	
Stop Solution	1 x 12ml	
TMB Development Solution	1 x 12ml	

功能	Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion.
	Interacts with the beta-1 integrin VLA4 on leukocytes, and mediates both adhesion and signal
	transduction. The VCAM1/VLA4 interaction may play a pathophysiologic role both in immune
	responses and in leukocyte emigration to sites of inflammation.
组织 特异性	Expressed on inflammed vascular endothelium, as well as on macrophage-like and dendritic cell
	types in both normal and inflammed tissue.
序列相似性	Contains 7 lg-like C2-type (immunoglobulin-like) domains.
结 构域	Either the first or the fourth Ig-like C2-type domain is required for VLA4-dependent cell adhesion.
翻 译后 修 饰	Sialoglycoprotein.
细 胞定位	Membrane.

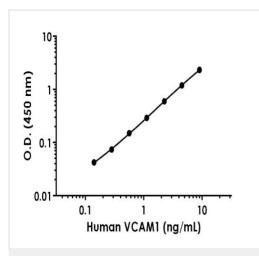
图片



SimpleStep ELISA technology allows the formation of the antibodyantigen complex in one single step, reducing assay time to 90 minutes. Add samples or standards and antibody mix to wells all at once, incubate, wash, and add your final substrate. See protocol for a detailed step-by-step guide.

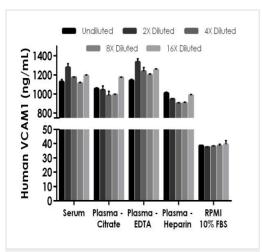


Standard curve comparison between Human VCAM1 SimpleStep ELISA® kit and traditional ELISA kit from leading competitor. SimpleStep ELISA kit shows increased sensitivity.

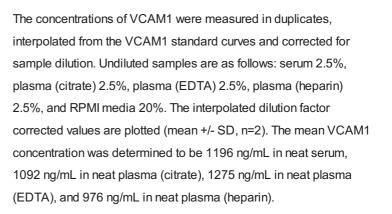


Background-subtracted data values (mean +/- SD) are graphed.

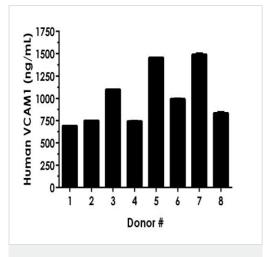
Example of human VCAM1 standard curve [in Sample Diluent NS



Interpolated concentrations of native VCAM1 in human serum and plasma, and interpolated concentrations of spiked VCAM1 in cell culture supernatant samples



Interpolated dilution factor corrected values are plotted (mean +/-SD, n=2). The mean VCAM1 concentration was determined to be 1007 ng/mL with a range of 690 – 1501 ng/mL.



Serum from eight individual healthy human female donors was measured in duplicate



To learn more about the advantages of recombinant antibodies see **here**.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- · Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <u>https://www.abcam.cn/abpromise</u> or contact our technical team.

Terms and conditions

· Guarantee only valid for products bought direct from Abcam or one of our authorized distributors