

Human VCAM1 ELISA Kit | VCAM1 elisa kit

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CATALOG #
AAA258328

REACTIVITY
Human

PRODUCT SYNONYMS

VCAM1; Human VCAM1 ELISA Kit; VCAM1 ELISA Kit; Human; vascular cell adhesion molecule 1; CD106 ELISA Kit; INCAM-100 ELISA Kit; VCAM-1 ELISA Kit; VCAM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human VCAM1 concentration in serum, cell culture supernates and plasma.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant, Plasma
Detection Range	109.38-7000pg/mL
Sensitivity	29.51pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50 ng/m in a mid-range recombinant human VCAM1 control were assayed for interference. No significant interference was observed.
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

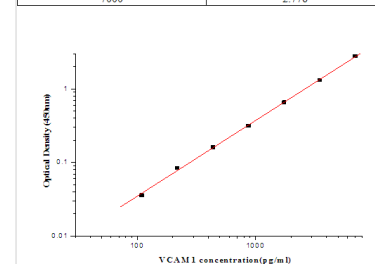
IMAGES

Recombinant human			
ALCAM	BCAM	Cad8	CNTN1
DNAM1	CD62E	ICAM1	ICAM2
ICAM3	JAM3	LAMP1	SELL
CD146	NCAM1	CD31	SELP
TROP2			
Recombinant mouse			
ALCAM	SELE	ICAM1	ICAM2
JAM2	JAM3	SELL	SELP
VCAM1			

Application Data

This assay recognizes both recombinant and natural Human VCAM1. 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
109.38	0.036
218.75	0.084
437.5	0.162
875	0.314
1750	0.654
3500	1.324
7000	2.776



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 VCAM1 elisa kit	This VCAM1 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human VCAM1 protein in Serum, Cell supernatant, Plasma. It contains recombinant Human VCAM1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Vascular cell adhesion molecule 1 (VCAM-1), also known as CD106, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. Two forms of VCAM-1 with either six or seven extracellular Ig-like domains are generated by alternative splicing, with the longer form predominant. VCAM-1 is an endothelial ligand for very late antigen-4 (VLA-4) and alpha4beta7 integrin expressed on leukocytes, and thus mediates leukocyte-endothelial cell adhesion and signal transduction. VCAM-1 expression is induced on endothelial cells during inflammatory bowel disease, atherosclerosis, allograft rejection, infection, and asthmatic responses. During these responses, VCAM-1 forms a scaffold for leukocyte migration. VCAM-1 also activates signals within endothelial cells resulting in the opening of an "endothelial cell gate" through which leukocytes migrate. VCAM-1 has been identified as a potential anti-inflammatory therapeutic target, the hypothesis being that reduced expression of VCAM-1 will slow the development of atherosclerosis. In addition, VCAM-1-activated signals in endothelial cells are regulated by cytokines indicating that it is important to consider both endothelial cell adhesion molecule expression and function during inflammatory processes.
References	Cook-Mills JM. (2002) VCAM-1 signals during lymphocyte migration: role of reactive oxygen species. Mol Immunol. 39(9): 499-508. Preiss DJ, et al. (2007) Vascular cell adhesion molecule-1: a viable therapeutic target for atherosclerosis. Int J Clin Pract. 61(4): 697-701.

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/vcam1/258328>