

# Human Vascular cell adhesion molecule 1 (VCAM-1) ELISA Kit



Catalog No: #EK5896

Orders: order@signalwayantibody.com

Package Size: #EK5896-1 48T #EK5896-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Vascular cell adhesion molecule 1 (VCAM-1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CD106; DKFZp779G2333; INCAM-100; MGC99561; CD106 antigen
Accession No.	P19320
Uniprot	P19320
GeneID	7412;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.78-50 ng/mL

Sensitivity:0.29 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate VCAM1 in samples. An antibody specific for VCAM1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyVCAM1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VCAM1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VCAM1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**VCAM-1 (CD106), a member of the immunoglobulin superfamily, is a cell surface protein expressed by activated endothelial cells and certain leukocytes (such as macrophages). VCAM-1 expression is induced by IL-1 $\beta$ , IL-4, TNF- $\alpha$  and IFN- $\gamma$ . VCAM-1 binds to leukocyte integrins VLA-4 and  $\alpha$ 4 $\beta$ 7. The rat and mouse SVCAM-1 proteins share approximately 76% amino acid similarity.

VCAM-1 is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis.

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Note: This product is for in vitro research use only