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### VCAM1 ELISA Kit





#### Overview

Quantity:	1 kit
Target:	VCAM1
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## **Product Details**

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: CD106, CD106 antigen, DKFZp779G2333, INCAM 100, INCAM-100, INCAM100, L1CAM, MGC99561, V CAM 1, V-CAM 1, Vascular cell adhesion molecule 1, Vascular cell adhesion protein 1, VCAM 1, VCAM-1, VCAM1, VCAM1_HUMAN  Background: Vascular cell adhesion molecule 1(VCAM-1) is a cell surface glycoprotein adhesive.

Background: Vascular cell adhesion molecule 1(VCAM-1) is a cell surface glycoprotein adhesive for certain blood leukocytes and tumor cells, which is expressed by activated endothelium in a variety of pathologic conditions including atherosclerosis. Increased expression of VCAM1 is associated with a variety of chronic inflammatory conditions, making its expression and function a target for therapeutic intervention. Integrin alpha4beta1(VLA-4) and VCAM-1 facilitate a critical cell-cell adhesion event required for survival of endothelial and mural cells during vascularization. The VCAM1 gene is assigned to the 1p31-32 region of chromosome 1 based on the analysis of human-mouse hybrid cell lines and in situ hybridization. The standard product used in this kit is recombinant mouse VCAM-1, a dimeric protein linking with a disulfide bond. It consists of Phe25-Glu698 amino acid sequence of a single chain with the molecular mass of 101.9KDa. As a result of glycosylation, the molecular mass of 120KDa is revealed by SDS-PAGE.

Gene Name: VCAM1

Production: Natural and recombinant mouse VCAM-1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: F25 - E698

# **Target Details**

Target:	VCAM1
Alternative Name:	VCAM-1 (VCAM1 Products)
Gene ID:	22329
NCBI Accession:	NP_035823
UniProt:	P29533
Pathways:	Carbohydrate Homeostasis

Application Details	
Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot
	0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	313pg/mL, 156pg/mL mouse VCAM-1 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. We recommend that each mouse VCAM-1 standard solution and each sample
	is measured in duplicate.
	Blood Product Anticoagulant: Heparin Sodium
	ELISA Dilution: 156pg/mL-10000pg/mL
Sample Volume:	100 μL
Plate:	Pre-coated

# **Application Details**

Restrictions:

For Research Use only

# Handling

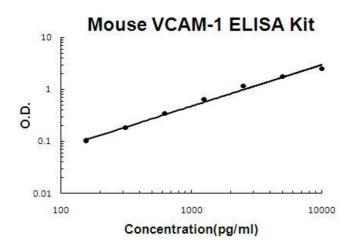
Storage:

RT,4 °C,-20 °C

Storage Comment:

Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

### **Images**



#### **ELISA**

**Image 1.** Mouse VCAM-1 Accusignal ELISA Kit Mouse VCAM-1 AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <5pg/ml.