abcam

Product datasheet

Human VCAM1 ELISA Kit ab100661

3 References 2 Images

Overview

Product name Human VCAM1 ELISA Kit

Detection method Colorimetric

Sample type Cell culture supernatant, Serum, Plasma

Assay type Sandwich (quantitative)

Sensitivity < 0.3 ng/ml

Range 0.247 ng/ml - 60 ng/ml

Recovery 95 %

Sample specific recovery

Sample type	Average %	Range
Cell culture supernatant	98.76	85% - 104%
Serum	94.42	83% - 103%
Plasma	93.58	82% - 102%

Assay duration Multiple steps standard assay

Species reactivity Reacts with: Human

Product overview Abcam's VCAM1 Human ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro

enzyme-linked immunosorbent assay for the quantitative measurement of Human VCAM1 in

serum, plasma and cell culture supernatants.

This assay employs an antibody specific for Human VCAM1 coated on a 96-well plate. Standards and samples are pipetted into the wells and VCAM1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human VCAM1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of VCAM1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

Notes Optimization may be required with urine samples.

Platform Microplate

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Properties

Storage instructions

Store at -20°C. Please refer to protocols.

Components	1 x 96 tests
20X Wash Buffer	1 x 25ml
320X HRP-Streptavidin Concentrate	1 x 200µl
5X Assay Diluent B	1 x 15ml
Assay Diluent A	1 x 30ml
Biotinylated anti-Human VCAM1	2 vials
Recombinant Human VCAM1 Standard (lyophilized)	2 vials
Stop Solution	1 x 8ml
TMB One-Step Substrate Reagent	1 x 12ml
VCAM1 Microplate (12 x 8 wells)	1 unit

Function 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.

Tissue specificity Expressed on inflammed vascular endothelium, as well as on macrophage-like and dendritic cell

types in both normal and inflammed tissue.

Sequence similaritiesContains 7 lg-like C2-type (immunoglobulin-like) domains.

Domain Either the first or the fourth Ig-like C2-type domain is required for VLA4-dependent cell adhesion.

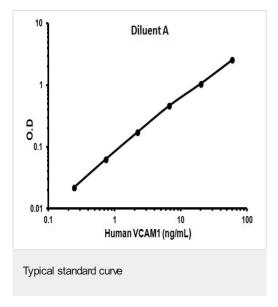
Post-translational

modifications

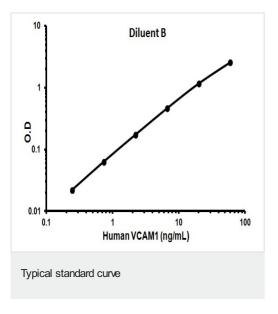
Sialoglycoprotein.

Cellular localization Membrane.

Images



Representative standard curve using ab100661



Representative standard curve using ab100661

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