

Product datasheet for EA200038

Human VCAM1 ELISA Kit 1 x 96

Product data:

Product Type: ELISA Kits

Description: Human VCAM1 ELISA Kit 1 x 96

Size: 1 x 96 wells

Format: 8x12 divisible strips

Assay Type: Sandwich

Assay Length: 3.5 hours incubations; 0.5 hour washing and analyzing samples

Signal: Colorimetric
Curve Range: 0.94-60ng/ml

Sample Type: Human serum, plasma, and other biological fluids.

Sample Volume: 100µl

Specificity: This kit is used for quantitative detection of VCAM1

Sensitivity: 0.323ng/ml

Reactivity: Human

Cross Reactivity: There is no detectable cross-reactivity with other relevant proteins.

Interference: No significant interference observed with available related molecules.

Components: • VCAM1 Monoclonal Antibody Coated 96-well Plate in foil pouch with desiccant | 1 plate

- Recombinant Human VCAM1 Standard (3.0µg/ml)|0.1 mL
- 100x Biotin conjugated VCAM1 Detection Antibody | 0.12 mL
- 100x SA-HRP Conjugate | 0.12 mL
- Assay Buffer | 40 mL
- Sample Diluent | 30 mL
- Wash Buffer Concentrate 20X | 60 mL
- TMB Substrate | 12 mL
- Stop Solution | 12 mL
- Plate Sealer | 3 pieces



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Background:

Vascular cell adhesion protein 1 also known as vascular cell adhesion molecule 1 (VCAM-1) or cluster of differentiation 106 (CD106) is a cell surface sialoglycoprotein, a type I membrane protein that is a member of the Ig superfamily. VCAM-1 is expressed in endothelial cells in response to VEGF and other cytokines such as TNFα and IL-1β, and mediates the adhesion of lymphocytes, monocytes, eosinophils, and basophils to vascular endothelium. VCAM-1 expression has also been observed in other cell types such as smooth muscle cells. VCAM-1 also functions in leukocyte-endothelial cell signal transduction, and has been implicated as a mediator of angiogenesis. VCAM-1 expression plays a major role in adhesion of leukocytes to the endothelium in inflammed tissue and in the tumor site. It may also play a role in the development of atherosclerosis and rheumatoid arthritis. Furthermore, it may exert its function as an adhesion molecule to facilitate metastasis. It has been reported that VCAM-1 is over-expressed in various diseases and cancers. One study showed that VCAM-1 expression was associated with the metastasis of melanoma. Recent studies have demonstrated high serum levels of VCAM-1 in patients with colorectal cancer and gastric cancer, and a high serum VCAM-1 level was significantly associated with advanced disease stage and poor prognosis in gastric cancer and breast cancer. VCAM-1 is useful as a non-invasive biomarker for the monitoring of disease progression in cancer and other diseases.

Gene Symbol: VCAM1
Gene ID: 7412