

## Anti-VCAM-1 Antibody-FITC (5S896)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	FITC
Clone:	5S896
Purification:	Protein A

## Applications

Verified Activity:	Flow cytometric analysis of Human VCAM1 expression on HUT78 cells. Cells were stained with FITC-conjugated anti-Human VCAM1. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	10 µl/Test, 0.1 mg/ml

## Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human VCAM1 Protein
Antigen Species:	Human
Synonyms:	VCAM-1;vascular cell adhesion molecule 1;INCAM-100;CD106

## Research 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  $\alpha$ 4B7 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. Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

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