

Anti-VCAM-1 Antibody-FITC (6R700)

Product Details

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| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | FITC |
| Clone: | 6R700 |
| Purification: | Protein A |

Applications

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| 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

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| 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

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

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 α 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 Immunotherapy/Immune Checkpoint Immunotherapy/Targeted Therapy

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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