

Recombinant Mouse VCAM-1/CD106 Protein (Fc Tag)

RPES8490



Product Information

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|------------------------------|-----------------------------------|--------------------------|
| Product SKU: RPES8490 | Expression Host: Mammalian | Size: 20µg |
| Tag: C-Fc | Reactivity: Mouse | Accession: P29533 |

Additional Information

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|---------------------------------|-----------------------------|
| Calculated MW: 101.6 kDa | Observed MW: 102 kDa |
| Sequence: Met1-Glu698 | |

Protein Information

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 $\alpha 4\beta 7$ 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.

Synonyms: MGC, Vascular cell adhesion protein, Vascular Cell Adhesion Molecule, VCMA, V-CAM, CD106, CD106 Antigen, INCAM 100, INCAM-100, L1CAM, MGC99561, Vascular Cell

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Adhesion Molecule 1, Vascular cell adhesion protein 1, VCAM 1, V-CAM 1, VCMA1, Vcam-1, Vcam1, CD106, INCAM-100, vascular cell adhesion molecule 1

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

Storage: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.