

## Active Recombinant Mouse Vcam1, His & hFc-tagged

**Cat. No.** Vcam1-1784M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Vcam1(Met 1-Glu 698)(NP_035823.3) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.                                                                                                                                                                                              |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Met 1-Glu 698                                                                                                                                                                                                                                                                                                                                  |
| <b>Form</b>             | Lyophilized from sterile 50 mM Tris, pH 8.0.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                       |
| <b>Bio-activity</b>     | Measured by the ability of the immobilized protein to support adhesion of U937 human histiocytic lymphoma cells.<br>When cells are added to VCAM1-coated plates (10 µg/ml, 100 µg/well), approximately >70% cells will adhere specifically.                                                                                                    |
| <b>Molecular Mass</b>   | The recombinant mouse VCAM1/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 922 amino acids and has a predicted molecular mass of 102 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmVCAM1/Fc monomer is approximately 110-120 kDa due to glycosylation. |
| <b>Endotoxin</b>        | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                                                                                                       |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                  |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C<br>Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                     |

## GENE INFORMATION

|                        |                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Vcam1 vascular cell adhesion molecule 1 [ Mus musculus ]                                            |
| <b>Official Symbol</b> | Vcam1                                                                                               |
| <b>Synonyms</b>        | VCAM1; vascular cell adhesion molecule 1; vascular cell adhesion protein 1; V-CAM 1; CD106; Vcam-1; |
| <b>Gene ID</b>         | 22329                                                                                               |
| <b>mRNA Refseq</b>     | NM_011693                                                                                           |
| <b>Protein Refseq</b>  | NP_035823                                                                                           |

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