

## Active Recombinant Human VCAM1 Protein, hFc-tagged, Alexa Fluor 555 conjugated

Cat. No. VCAM1-1794MAF555    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The Alexa Fluor 555 conjugated extracellular domain of human VCAM-1 (NP_001069.1) (Lys26-Glu698) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis. Three alternatively spliced transcripts encoding different isoforms have been described for this gene. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>     | Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells.                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 100 kDa (monomer)                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | Lys26-Glu698                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.06 EU/ µg as determined by LAL test.                                                                                                                                                                                                                  |
| <b>Purity</b>         | > 98 % by SDS-PAGE under reducing conditions.                                                                                                                                                                                                             |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 555 via amines<br>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters. |
| <b>Stability</b>      | Stable for at least 1 year after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.                                                                                                     |
| <b>Concentration</b>  | 100 µg/mL                                                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | Lyophilized from 0.2 µm filtered solution in PBS.                                                                                                                                                                                                         |
| <b>Reconstitution</b> | Reconstitute at 100 µg/mL in sterile PBS.                                                                                                                                                                                                                 |
| <b>Conjugation</b>    | Alexa Fluor 555                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | VCAM1 vascular cell adhesion molecule 1 [ Homo sapiens ]                                                                              |
| <b>Official Symbol</b> | VCAM1                                                                                                                                 |
| <b>Synonyms</b>        | VCAM1; vascular cell adhesion molecule 1; vascular cell adhesion protein 1; CD106; CD106 antigen; INCAM-100; MGC99561; DKFZp779G2333; |
| <b>Gene ID</b>         | 7412                                                                                                                                  |

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|----------------|-----------|
| mRNA Refseq    | NM_001078 |
| Protein Refseq | NP_001069 |
| MIM            | 192225    |
| UniProt ID     | P19320    |

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