

Datasheet for ABIN7198676  
**VCAM1 Protein (His tag)**[Go to Product page](#)

## 1 Image

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 100 µg                                       |
| Target:                       | VCAM1  |
| Origin:                       | Mouse  |
| Source:                       | HEK-293 Cells                                |
| Protein Type:                 | Recombinant                                  |
| Biological Activity:          | Active                                       |
| Purification tag / Conjugate: | This VCAM1 protein is labelled with His tag. |

## Product Details

|                              |  |
|------------------------------|--|
| Purpose:                     | Recombinant Mouse VCAM1 Protein (His Tag)(Active)  |
| Sequence:                    | Met 1-Glu 698  |
| Characteristics:             | A DNA sequence encoding the extracellular domain (Met 1-Glu 698) of mouse VCAM1 (NP_035823.3) was fused with the a polyhistidine tag at the C-terminus.  |
| Purity:                      | > 97 % as determined by SDS-PAGE   |
| Endotoxin Level:             | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| Biological Activity Comment: | Measured by the ability of the immobilized protein to support adhesion of U937 human histiocytic lymphoma cells. When 5 x 10 <sup>4</sup> cells/well are added to mouse VCAM1 coated plates (10 µg/ml with 100 µl/well), approximately 70%-80% cells will adhere after 1 hour at RT. |

## Target Details

|         |       |
|---------|-------|
| Target: | VCAM1 |
|---------|-------|

## Target Details

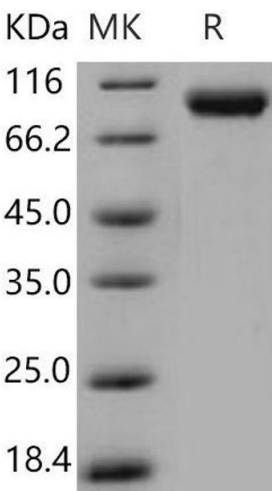
|                   |   |
|-------------------|---|
| Alternative Name: | VCAM1 ( <a href="#">VCAM1 Products</a> )  |
| Background:       | <p>Background: Vascular cell adhesion molecule 1 (VCAM-1), also known as CD106, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. 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 <math>\alpha 4\beta 7</math> 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.</p> <p>Immune Checkpoint   Immunotherapy   Cancer Immunotherapy   Targeted Therapy</p> <p>Synonym: CD106;Vascular cell adhesion protein 1; Vcam1; L1CAM;VCMA1;Vcam-1</p> |
| Molecular Weight: | 75.8 kDa  |
| NCBI Accession:   | <a href="#">NP_035823</a>   |
| Pathways:         | <a href="#">Carbohydrate Homeostasis</a>  |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |  |
|------------------|--|
| Format:          | Lyophilized  |
| Reconstitution:  | Please refer to the printed manual for detailed information.   |
| Buffer:          | Lyophilized from sterile PBS, pH 7.4   |
| Storage:         | 4 °C, -20 °C, -80 °C   |
| Storage Comment: | <p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p> |



**Western Blotting**

Image 1.