

Datasheet for ABIN7198677

**VCAM1 Protein (His tag,Fc 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,Fc Tag.

## Product Details

Purpose:	Recombinant Mouse VCAM1 Protein (His & Fc 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) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % 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 cells are added to VCAM1-coated plates (10 µg/ml, 100 µg/well), approximately >70% cells will adhere specifically.

## Target Details

Target:	VCAM1
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:	102 kDa
NCBI Accession:	<a href="#">NP_035823</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a>

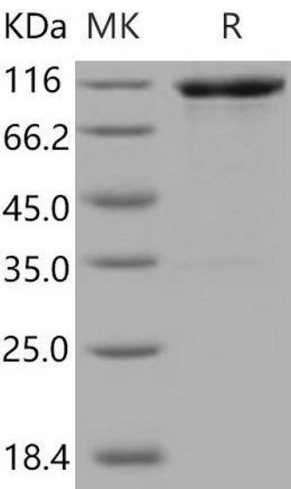
## Application Details

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:	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

Handling

samples are stable at < -20°C for 3 months.

Images



**Western Blotting**

**Image 1.**