

## Active Recombinant Mouse Vcam1, His-tagged

Cat. No. Vcam1-4013M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	Mouse
<b>ProteinLength</b>	1-698 a.a.
<b>Description</b>	Mouse vascular cell adhesion molecule 1 (VCAM1), also known as CD106, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. Two isoforms of mouse VCAM1 have been identified, referred to as single-pass type I transmembrane (short) isoform 1 containing seven C2-type I g-like domains and GPI-anchored isoform 2. Mouse VCAM1 is expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue.
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
<b>Purity</b>	> 97 % as determined by SDS-PAGE
<b>Bio-activity</b>	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5 x 10 <sup>4</sup> cells / well are added to mouse

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	VCAM1 coated plates ( 10 µg/mL with 100 µL/well ) , approximately 70% - 80% cells will adhere after 1 hour incubation at RT
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70µ
<b>Predicted N terminal</b>	Phe 25
<b>Molecular Mass</b>	The secreted recombinant mouse VCAM1 consists of 685 amino acids and has a predicted molecular mass of 75.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmVCAM1 is approximately 90-100 kDa due to glycosylation.
<b>Storage</b>	Store it under sterile conditions at -70µ. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Vcam1 vascular cell adhesion molecule 1 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Vcam1</a>
<b>Synonyms</b>	Vcam1; vascular cell adhesion molecule 1; CD106; Vcam-1
<b>Gene ID</b>	<a href="#">22329</a>
<b>mRNA Refseq</b>	<a href="#">NM_011693</a>
<b>Protein Refseq</b>	<a href="#">NP_035823</a>

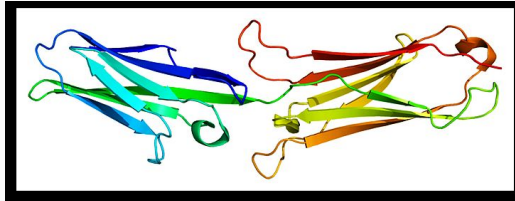
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<b>UniProt ID</b>	P29533
<b>Chromosome Location</b>	3 G1; 3 50.8 cM
<b>Pathway</b>	Cell adhesion molecules (CAMs); Leukocyte transendothelial migration
<b>Function</b>	protein binding

**PDB rendering based on 1ij9.**



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