

CD106 (VCAM1) Active Protein | CD106 active protein

Human CD106 Recombinant (VCAM1)

CATALOG #	HOST
AAA14416	HEK293 cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

CD106 (VCAM1); Human CD106 Recombinant (VCAM1); CD106 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant CD106 is supplied as a 0.2 um filtered PBS solution, pH7.2.
Sequence Length	698
Source Note	Optimized DNA sequence encoding Human extracellular domain of Human CD106 including a C-terminal 6His tag was expressed in HEK293 cells.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Biological Activity	The activity of recombinant VCAM1 was tested by immobilized recombinant CD106 (10ug/ml) ability to support adhesion of U937 human histiocytic lymphoma cells (5X10 ⁴ cells/well), 70% will adhere after 60 minutes at 37°C.
Preparation and Storage	Recombinant CD106, as supplied, can be stored in working aliquots at 2°C - 8°C for one month, or at -20°C to -70°C for twelve months. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Product Categories/Family for CD106 active protein	Receptors CD
References	• differential engagement of modules 1 and 4 of vascular cell adhesion molecule-1 (CD106) by integrins 41 (cd49d/29) and m2 (cd11b/18) of eosinophils .<i>J. Biol. Chem.</i>, Oct 2006; 281: 32175 - 32187. • novel expression of vascular cell adhesion molecule-1 (CD106) by squamous epithelium in experimental acute graft-versus-host disease .<i>Am. J. Pathol.</i>, Sep 2002; 161: 763 - 770. • vascular cell adhesion molecule-1 (CD106) is cleaved by neutrophil proteases in the bone marrow following hematopoietic progenitor cell mobilization by granulocyte colony-stimulating factor .<i>Blood</i>, Sep 2001; 98: 1289 - 1297. • rheumatoid arthritis synovial stromal cells inhibit apoptosis and up-regulate bcl-xl expression by b cells in a cd49/cd29-CD106-dependent mechanism .<i>J. Immunol.</i>, Jan 2000; 164: 1110 - 1116. • thrombin-activated human endothelial cells support monocyte adhesion in vitro following expression of intercellular adhesion molecule-1 (icam-1; cd54) and vascular cell adhesion molecule-1 (vcam-1; CD106) .<i>Blood</i>, Aug 1998; 92: 1259 - 1267.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507875
NCBI GeneID	7412

NCBI Accession #	NP_001069.1
NCBI GenBank Nucleotide #	NM_001078.3
UniProt Accession #	P19320 ; Q6NUP8 ; A8K6R7 ; B4DKS4 ; E9PDD1 ; Q53FL7 ; Q68DC4
Molecular Weight	Molecular Weight Note: Recombinant CD106 (VCAM1) is a monomer protein consisting of 689 amino acid residue subunits, due to glycosylation migrates as an approximately 110 kDa protein on SDS-PAGE.
NCBI Official Full Name	vascular cell adhesion protein 1 isoform a
UniProt Protein Name	Vascular cell adhesion protein 1
UniProt Gene Name	VCAM1
UniProt Synonym Gene Names	L1CAM; V-CAM 1; VCAM-1
UniProt Entry Name	VCAM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/cd106-vcam1/14416>