

# CD106 / VCAM1 (Activated Endothelial Cell Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone 1.4C3]

Catalog # AH12502

## Product Information

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Application	IHC, IF, FC
Primary Accession	<a href="#">P19320</a>
Other Accession	<a href="#">7412</a> , <a href="#">109225</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	1.4C3
Calculated MW	81276

## Additional Information

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Gene ID	7412
Other Names	Vascular cell adhesion protein 1, V-CAM 1, VCAM-1, INCAM-100, CD106, VCAM1, L1CAM
Application Note	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	CD106 / VCAM1 (Activated Endothelial Cell Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	VCAM1
Function	Cell adhesion glycoprotein predominantly expressed on the surface of endothelial cells that plays an important role in immune surveillance and inflammation (PubMed: <a href="#">31310649</a> ). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed: <a href="#">10209034</a> ). During inflammatory responses, binds ligands on the surface of activated endothelial cells to initiate the activation of calcium channels and the plasma membrane-associated small GTPase RAC1 leading to leukocyte transendothelial migration (PubMed: <a href="#">22970700</a> ). Also serves as a quality- control checkpoint for entry into bone marrow by providing a 'don't- eat-me' stamping in the context of major histocompatibility complex (MHC) class-I presentation (PubMed: <a href="#">35210567</a> ).

<b>Cellular Location</b>	[Vascular cell adhesion protein 1]: Cell membrane; Single-pass type I membrane protein
<b>Tissue Location</b>	Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue

## Background

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Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100). CD106 is a member of the Ig superfamily of adhesion molecules and is expressed at high levels on cytokine stimulated vascular endothelial cells, and at minimal levels on un-stimulated endothelial cells. It is also present on follicular and inter-follicular dendritic cells of lymph nodes, myoblasts, and some macrophages. CD106 serves as a ligand for leukocyte integrin (VLA-4 or CD49d/CD29) and mediates cell adhesion of leukocytes to activated endothelium. It plays a role in various immunological and inflammatory responses.

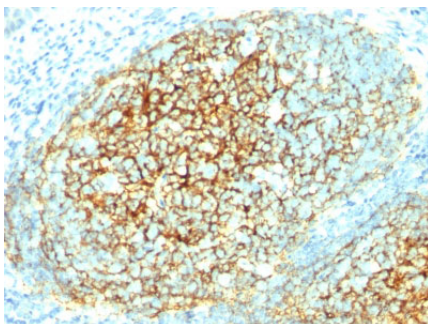
## References

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Vermot-Desroches C et al. Heterogeneity of antigen expression among human umbilical cord vascular endothelial cells: identification of cell subsets by co-expression of haemopoietic antigens. *Immunol Lett* 1995, 48(1):1-9 | Rice GE et al. Vascular and nonvascular expression of INCAM-110. A target for mononuclear leukocyte adhesion in normal and inflamed human tissues. *Am J Pathol* 1991, 138(2):385-393 | Huang MJ et al. Expression of vascular cell adhesion molecule-1 by follicular dendritic cells. *Leuk Lymphoma* 1995, 18(3-4):259-264

## Images

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Formalin-fixed, paraffin-embedded human Tonsil stained with CD106 Monoclonal Antibody (1.4C3).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.