

V-CAM-1 (CD106). Mouse Monoclonal Antibody 1.4C3 , Human

BACKGROUND

Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-110). 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 unstimulated endothelial cells. It is also present on follicular and interfollicular dendritic cells of lymph nodes, myoblasts, and some macrophages. CD106 serves as a ligand for leukocyte integrin $\alpha 4\beta 1$ (VLA-4 or CD49d/CD29) and mediates cell adhesion of leukocytes to activated endothelium. It plays a role in various immunological and inflammatory responses.

ORDERING INFORMATION

CATALOG NUMBER
X1474M

SIZE
100 μ g

FORM
Unconjugated

HOST/CLONE
Mouse Clone 1.4C3

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG1

APPLICATIONS
Immunohistochemistry

IMMUNOGEN

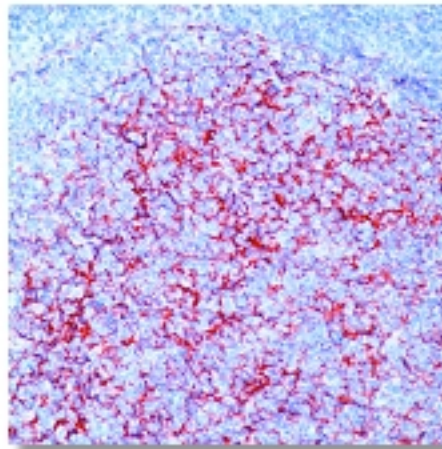
Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with stimulated HUVEC cells and mouse myeloma NS1 cells.

SPECIES REACTIVITY

Human

Legend:

Immunohistochemical staining using CD106 antibody on formalin fixed, paraffin embedded human tonsil tissue.



For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL/TISSUE EXPRESSION

Tonsil

COMMENTS

This antibody can be used for Immunohistochemistry on frozen and formalin/paraffin embedded tissues (2-4 µg/ml). Optimal concentration should be evaluated by serial dilutions. Note: Use on formalin-fixed sections requires boiling sections in 1mM EDTA, pH 8.0 for 10-20 min followed by cooling at RT for 20 min.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Schlossman SF et al. eds. Leukocyte Typing V, p1764-1767, Oxford University Press, Oxford, 1995.
2. 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
3. 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
4. Huang MJ et al. Expression of vascular cell adhesion molecule-1 by follicular dendritic cells. Leuk Lymphoma 1995, 18(3-4):259-264.
5. Rosen GD et al. Roles for the integrin VLA-4 and its counter receptor VCAM-1 in myogenesis. Cell 1992, 69(7):1107-1119
6. Bevilacqua MP. Endothelial-leukocyte adhesion molecules. Annu Rev Immunol 1993;11:767-804
7. Foster CA. VCAM-1/alpha 4-integrin adhesion pathway: therapeutic target for allergic inflammatory disorders. J Allergy Clin Immunol 1996, 98(6 Pt 2):S270-277.

LAST MODIFIED 3/27/2008

For research use only. Not for use in human diagnostics or therapeutics.