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CD106, VCAM-1, vascular-cell adhesion molecule-1, clone 1G11B1 Monoclonal Antibody

Catalog No.: MON 6017

Quantity: 1 ml

Specificity
The antibody reacts with VCAM-1, the vascular cell adhesion molecule (1), which is a member of the immunoglobulin superfamily. The antigen is induced on human endothelial cells by TNF, IL-1, IFN-γ or endotoxin. The ligand for VCAM-1 is VLA-4 (CD49d/CD29) an integrin that is constitutively expressed by thymocytes, lymphocytes and monocytes.

Immunoglobulin type
murine IgG_1

Use
The antibody is extremely useful for staining of VCAM-1 expressing endothelial cells. It permits staining of in vitro cultured cells and frozen tissue sections.
It inhibits cellular adhesion. This antibody is useful in ELISA techniques.

Instructions for use
In vitro cultured cells can be fixed with 1% paraformaldehyde. Tissue sections are advised to be fixed for 10 min. in pure acetone and followed by incubation for 10 min in chloroform. Incubation with a pretested dilution of the antibody is advised to be followed by a biotin conjugated anti murine Ig and a further incubation with an enzyme (alkaline phosphatase) conjugated streptavidin. For selection of the most useful dilution in a given situation a test staining with cells or tissue known to express the antigen should be performed. To this end either cultured endothelial cells or a small fresh skin biopsy can be incubated for 6 hours with TNF (1 ng/ml), IL-1 (100 μg/ml) or LPS (1 μg/ml) in tissue culture medium at 37EC. As negative control it is advised to use as first antibody a control murine IgG_1 antibody.

Presentation
1 ml containinig approximately 100 μg/ml purified Ig with 0.02% sodium azide.
Sufficient for staining of 100 frozen tissue samples.

Literature:
1. Polte, T., et al., 1990, N.A.R. *15*, 5901.
2. Thornhill, M., et al., 1991, J. Immunol. *146*, 592.
3. Kyan-Aung, U., et al., 1991, Am. Review. *5*, 445-450.

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