

CD54, Intracellular Adhesion Molecule-1, ICAM-1, clone MEM 111 Monoclonal Antibody

Catalog No.: MON1132

Quantity: 1 ml

Specificity

This antibody reacts with human broadly expressed adhesive molecule ICAM-1, the 90 kD glycoprotein Intracellular Adhesion Molecule-1 (CD54). The adhesion molecule ICAM-1 belongs to the Immunoglobulin family. It is a ligand for the integrin LFA-1. Immunogen originated from Raji cell line.

Immunoglobulin type

Murine IgG_{2a}

Use

This antibody is useful for studies on ICAM-1 expression. Antibodies MEM-111 and MEM-112 cross inhibit binding of each other to ICAM-1 expressing cells. This antibody can be used in immunoisolation of the antigen and immunostaining of CD54 positive cells. It will also react with soluble form of CD54 as present in serum. It is suitable on frozen and paraffin embedded sections.

Instructions for use

The antibody is useful for staining of in vitro cultured cells by means of immunofluorescence. In vitro cultured cells can be fixed with 1% paraformaldehyde and kept in PBS plus azide before staining.

It is also applicable in immunohistochemistry (frozen en paraffin sections). For use in paraffin a pretreatment is needed (citric buffer with microwave is possible). For paraffin section a dilution 1:20-1:50 is advised, for use in frozen sections a dilution of 1:100 is advised, but the optimal dilutions should be tested by serial dilutions. For positive control normal lung tissue and lung emphysema is recommended.

Presentation

1.0 ml antibody solution contains 0.1% sodium azide.

Presentation

- Leeuweberg, J.F.M., et al., 1992, Immunology 77, 543.

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