

CD62E, ELAM-1, E-selectin, F(ab')₂, clone ENA2 Monoclonal Antibody

Catalog No.: MON 6011

Quantity: 1 ml

Specificity

ENA2 reacts with E-selectin CD62-E, previous designated as the Endothelial Leucocyte Adhesion Molecule-1 (ELAM-1)[1-4]. The antibody reacts with human endothelial cells activated with TNF, IL-1 or endotoxin. The antibody was found to react also with cells transfected with the E-selectin gene. The antibody inhibits the adhesion of granulocytes both neutrophilic and eosinophilic.

Immunoglobulin type

Murine IgG₁

Use

The antibody is useful for staining of ELAM-1 expressing endothelial cells. It permits staining of in vitro cultured cells as well as frozen sections. The antibody can also be used for staining of chimpanzee, rhesus monkey, cynomolgus monkey and baboon endothelial cells expressing ELAM-1. For adhesion inhibition studies the F(ab')₂ ENA2 monoclonal antibody preparation is most efficient. Use of F(ab')₂ prevents adhesion of leukocytes via Fc receptors (2).

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 4 hours with TNF (1 ng/ml), IL-1 (100 u/ml) or LPS (1 µg/ml) in tissue culture medium at 37°C. As negative control it is advised to use as first antibody a control murine IgG₁ antibody. For inhibition studies care should be taken to incubate endothelial cells before addition of granulocytes or to use higher concentrations of antibody in case the antibody will be added simultaneously.

Presentation

1 ml with approximately 100 µg purified F(ab')₂ and 0.02% sodium azide.

Literature:

- 1 Leeuwenberg, J.F.M., et al., 1989, Eur. J. Immunol. 19, 715.
- 2 Leeuwenberg, J.F.M., et al., 1990, Clin. and Exp. Immunol. 81, 496.
- 3 Leeuwenberg, J.F.M., et al., 1990, Immunology 71, 301.
- 4 Leeuwenberg, J.F.M., et al., 1990, J. Immunology 145, 2110.

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