

## **CD62E, ELAM-1, E-selectin, clone ENA1. Monoclonal Antibody**

**Catalog No.:** MON 6010

**Quantity:** 1 ml

### **Specificity**

ENA1 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 ELAM-1 gene. The antibody inhibits the adhesion of granulocytes both neutrophilic and eosinophilic.

### **Immunoglobulin type**

murine IgG<sub>1</sub>

### **Use**

The antibody is extremely 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 we advise to use the F(ab)<sub>2</sub> ENA2 monoclonal antibody preparation (MON6011), which is most efficient for this purpose and 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 IgG<sub>1</sub> antibody.

### **Presentation**

1 ml. (100 µg/1 ml) purified Ig with 0.1% sodium azide. Sufficient for staining of 100 frozen tissue samples.

### **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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