

Hycult biotechnology

E-Selectin/CD62E, Clone ENA1, Human mAb

Catalog No.	HM4001	Quantity:	100 µg
Description:	ENA1 reacts with E-selectin CD62-E, previous designated the Endothelial Leucocyte Adhesion Molecule-1 (ELAM-1). The antibody reacts with human endothelial cells activated with TNF-alpha, 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.		
Concentration:	100 µg/ml		
Specificity:	Human E-Selectin/CD62E		
Host:	Mouse		
Isotype:	IgG ₁		
Clone:	ENA1		
Formulation:	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		

Applications

The antibody is useful for staining of E-selectin 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, cynomolgous monkey and baboon endothelial cells expressing E-selectin. Furthermore the antibody can be used for immunoprecipitation and immuno assays. For adhesion inhibition studies we advise to use the F(ab')₂ ENA2 monoclonal antibody preparation (Cat. nr. HM4003), which is most efficient for this purpose and prevents adhesion of leucocytes via Fc receptors.

For immunohistology dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.

In vitro cultured cells can be fixed with 1% paraformaldehyde and kept in PBS plus azide before staining. 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-mouse 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-alpha (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 a control mouse IgG₁ antibody.

Storage & Stability:



Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com

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stable for one year.

References:

1. Leeuwenberg, JFM et al; Induction of an activation antigen on human endothelial cells *in vitro*. Eur J Immunol 1989, 19: 715
2. Leeuwenberg, JFM et al; Adhesion of polymorphonuclear cells to human endothelial cells. Adhesionmolecule dependent, and Fc-receptor-mediated adhesion-molecule-independent mechanisms. Clin and Exp Immunol 1990, 81: 496
3. Leeuwenberg, JFM et al; Functional polymorphism of IgG FcRII (CD32) on human neutrophils. Immunology 1990, 71: 301
4. Leeuwenberg, JFM et al; Interferon-gamma regulates the expression of an adhesion molecule ELAM-1 and IL-6 production by human endothelial cells *in vitro*. J Immunology 1990, 145: 2110

Also available:

HM4002: Biotinylated monoclonal antibody against Human E-Selectin, CD62-E, clone ENA1
HM4003: Monoclonal antibody against Human E-Selectin, CD62-E, F(ab')₂, clone ENA2
HP9017: Biotinylated polyclonal antibody against Human E-Selectin, CD62-E

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