

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	E-selectin, Human, clone ENA1		
<b>Catalog number</b>	HM4001-20UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	200 µl	<b>Amount</b>	20 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Mouse IgG1	<b>Conjugate</b>	None
<b>Endotoxin</b>	<24 EU/mg	<b>Purification</b>	Protein G
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•				•	•	•	
No								
N.D.		•	•	•				•

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

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.

- IHC-F: 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-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-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 murine IgG1 antibody.
- IHC-F: The antibody can also be used for staining of chimpanzee, rhesus monkey, cynomolgous monkey and baboon endothelial cells expressing E-selectin
- FS: For adhesion inhibition studies we advise to use the F(ab')<sub>2</sub> ENA2 monoclonal antibody preparation (Cat. nr. HM4003), which is most efficient for this purpose and prevents adhesion of leucocytes via Fc receptors.

**General Information**

<b>Description</b>	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.
<b>Aliases</b>	CD62-E
<b>Cross reactivity</b>	Chimpanzee: Yes; Rhesus monkey: Yes; Cynomolgous monkey: Yes; Baboon: Yes
<b>References</b>	<ol style="list-style-type: none"> <li>Leeuwenberg, JFM et al; Induction of an activation antigen on human endothelial cells in vitro. Eur J Immunol 1989, 19: 715</li> <li>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</li> <li>Leeuwenberg, JFM et al; Functional polymorphism of IgG FcRII (CD32) on human neutrophils. Immunology 1990, 71: 301</li> <li>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</li> </ol>
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

**Precautions**

For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

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We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
14/07/2021

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).