

E-Selectin (CD62E). Rat Monoclonal Antibody UZ5 Mouse

BACKGROUND

Leukocytes adhere to the blood vessel endothelium during extravasation in postcapillary venules of lymph nodes. In addition, leukocyte adhesion occurs in the capillaries and small venules at any site in the body after onset of inflammation. This response is immediate and involves a cascade of adhesion receptors. At the endothelial surface members of the selectin and immunoglobulin superfamilies participate in this cascade. Selectins are C-type cell surface lectins that play a role in leukocyte adhesion to the blood vessel wall endothelium. E-selectin (CD62E) is an endothelial cell specific selectin that is expressed only after activation with proinflammatory cytokines. In vitro experiments have shown that IL-1, TNF α and bacterial wall components like lipopolysaccharides induce the transcription of E-selectin in a NF κ B dependent signalling cascade.

E-selectin has been associated with blood vessel endothelium in diverse inflammatory situations

ORDERING INFORMATION

CATALOG NUMBER
X1780M

SIZE
100 μ g

FORM
Unconjugated

HOST/CLONE
Rat Clone UZ5

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG2b

APPLICATIONS
Western Blot, ELISA,
Immunoprecipitation,
Immunohistochemistry, Flow
Cytometry

IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from Lewis rat immunized with LPS-activated mIEND1 cells expressing E-selectin at their cell surface and mouse Sp2/0 myeloma cells.

SPECIES REACTIVITY

Mouse

COMMENTS

Antibody suitable for immunoblotting, ELISA, immunoprecipitation, immunohistochemistry on frozen sections and flow cytometry (1:200 dilution). Optimal concentration should be evaluated by serial dilutions.

STORAGE

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL/TISSUE EXPRESSION

This antibody recognizes a conformational epitope in the CR1 region in murine E-selectin. Also partially inhibits leukocyte adhesion to murine activated endothelial cells.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

REFERENCES

1. Hallmann, R., et al. (1995). Adhesion of leukocytes to the inflamed endothelium, *Scand J Rheumatol Suppl* *101*, 107–9.
2. Hammel, M., et al. (2001). Species-specific and conserved epitopes on mouse and human E-selectin important for leukocyte adhesion, *Exp Cell Res* *269*, 266–74.

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