

E-Selectin (UZ4): sc-59764

BACKGROUND

Selectins, also designated CD62 antigens, comprise a family of carbohydrate-binding proteins involved in mediating cellular interactions with leukocytes. L-Selectin (also designated LECAM-1 or CD62L) is expressed on the majority of B and naive T cells and on most monocytes, neutrophils and eosinophils. L-Selectin interacts with specific carbohydrates expressed by activated endothelial cells. P-Selectin (also designated GMP-140 or CD62P), expressed on activated platelets and endothelial cells, and E-Selectin (also designated ELMA-1 or CD62E), expressed on endothelial cells, exhibit overlapping ligand specificities. E-Selectin is expressed by cytokine-stimulated endothelial cells and is thought to be responsible for the accumulation of blood leukocytes at sites of inflammation by mediating the adhesion of cells to the vascular lining.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SELE (human) mapping to 1q24.2; Sele (mouse) mapping to 1 H2.2.

SOURCE

E-Selectin (UZ4) is a rat monoclonal antibody raised against LPS-activated m1END1 cells expressing E-Selectin at their cell surface of mouse origin.

PRODUCT

Each vial contains 100 μ g IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

E-Selectin (UZ4) is recommended for detection of the minimal amino acid consensus sequence CXKKKL present in the lectin domain of E-Selectin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and flow cytometry (1 μ g per 1×10^6 cells).

Suitable for use as control antibody for E-Selectin siRNA (h): sc-29296, E-Selectin siRNA (m): sc-35244, E-Selectin shRNA Plasmid (h): sc-29296-SH, E-Selectin shRNA Plasmid (m): sc-35244-SH, E-Selectin shRNA (h) Lentiviral Particles: sc-29296-V and E-Selectin shRNA (m) Lentiviral Particles: sc-35244-V.

Molecular Weight of E-Selectin: 115 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or U-698-M whole cell lysate: sc-364799.

SELECT PRODUCT CITATIONS

1. Ito, S., Osaka, M., Higuchi, Y., Nishijima, F., Ishii, H. and Yoshida, M. 2010. Indoxyl sulfate induces leukocyte-endothelial interactions through up-regulation of E-Selectin. *J. Biol. Chem.* 285: 38869-38875.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.



See **E-Selectin (D-7): sc-137054** for E-Selectin antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.