

L-Selectin (OX85): sc-53087

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. Both recognize sialyl-Lex as a ligand and bind to specific carbohydrates on neutrophils and monocytes.

REFERENCES

1. Varki, A. 1994. Selectin ligands. *Proc. Natl. Acad. Sci. USA* 91: 7390-7397.
2. Tedder, T.F., et al. 1995. The Selectins: vascular adhesion molecules. *FASEB J.* 10: 866-873.
3. Lasky, L.A. 1995. Selectin-carbohydrate interactions and the initiation of the inflammatory response. *Annu. Rev. Biochem.* 64: 113-139.
4. Pavalko, F.M., et al. 1995. The cytoplasmic domain of L-Selectin interacts with cytoskeletal proteins via α -actinin: receptor positioning in microvilli does not require interaction with α -actinin. *J. Cell Biol.* 129: 1155-1164.
5. Rosen, S.D. and Bertozzi, C.R. 1996. Two selectins converge on sulphate. *Leukocyte adhesion. Curr. Biol.* 6: 261-264.
6. McEver, R.P., et al. 1996. Leukocyte trafficking mediated by Selectin-carbohydrate interactions. *J. Biol. Chem.* 270: 11025-11028.
7. Diacovo, T.G., et al. 1996. Platelet-mediated lymphocyte delivery to high endothelial venules. *Science* 273: 252-255.
8. Frenette, P.S., et al. 1996. Susceptibility to infection and altered hematopoiesis in mice deficient in both P- and E-selectins. *Cell* 84: 563-574.
9. Nicholson, M.W., et al. 1998. Affinity and kinetic analysis of L-Selectin (CD62L) binding to glycosylation-dependent cell-adhesion molecule-1. *J. Biol. Chem.* 273: 763-770.

CHROMOSOMAL LOCATION

Genetic locus: Sell (mouse) mapping to 1 H2.2.

SOURCE

L-Selectin (OX85) is a mouse monoclonal antibody raised against purified L-Selectin-CD4 of rat origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

L-Selectin (OX85) is available conjugated to either phycoerythrin (sc-53087 PE) or fluorescein (sc-53087 FITC), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM.

RESEARCH USE

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

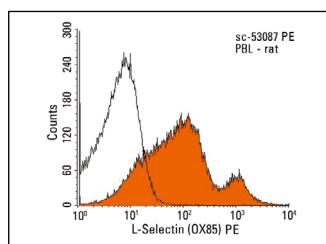
APPLICATIONS

L-Selectin (OX85) is recommended for detection of L-Selectin of mouse and rat origin by flow cytometry (1 μ g per 1×10^6 cells).

Suitable for use as control antibody for L-Selectin siRNA (m): sc-35771, L-Selectin shRNA Plasmid (m): sc-35771-SH and L-Selectin shRNA (m) Lentiviral Particles: sc-35771-V.

Molecular Weight of L-Selectin: 81 kDa.

DATA



L-Selectin (OX85): sc-53087. Indirect FCM analysis of rat peripheral blood leukocytes stained with L-Selectin (OX85), followed by PE-conjugated goat anti-mouse IgG: sc-3738. Black line histogram represents the isotype control, normal mouse IgG₁: sc-3877.

STORAGE

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

PROTOCOLS

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