
Anti-P-Selectin

Cat #: HM1330
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Selectins, also designated CD62 antigens, comprise a family of carbohydrate-binding proteins involved in the interaction between leukocytes and the endothelium. E-selectin (also designated ELMA-1 or CD62E) is expressed on endothelial cells. It 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. L-selectin (also designated LECAM-1 or CD62L) is expressed on the majority of B and naïve T cells and on most monocytes, neutrophils and eosinophils. It interacts with specific carbohydrates expressed by activated endothelial cells. P-selectin (also designated GMP-140 or CD62P) is expressed on activated platelets and endothelial cells. It redistributes to the plasma membrane during platelet activation and degranulation.

SPECIFICITY

This antibody specifically reacts with P-selectin of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A synthetic peptide derived from N-terminus of human P-selectin protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Johnston, G.I., Cook, R.G. and McEver, R.P. (1989) Cloning of GMP-140, a granule membrane protein of platelets and endothelium: sequence similarity to proteins involved in cell adhesion and inflammation. *Cell* 56, 1033-1044.
2. Varki, A. 1994. Selectin ligands. *Proc. Natl. Acad. Sci. USA* 91: 7390-7397.
3. Lasky, L.A. 1995. Selectin-carbohydrate interactions and the initiation of the inflammatory response. *Ann. Rev. Biochem.* 64: 113-139.
4. Pavalko, R.M., Walker, D.M., Graham, L., Goheen, M., Doerschuk, C.M., and Kansas, G.S. 1995. The cytoplasmic domain of L-selectin interacts with cytoskeletal proteins via alphaactinin: receptor positioning in microvilli does not require interaction with alpha-actenin. *J. Cell Biol.* 129: 1155-1164.
5. McEver, R.P., Moore, K.L., and Cummings, R.D. 1996. Leukocyte trafficking mediated by selectin-carbohydrate interactions. *J. Biol. Chem.* 270: 11025-11028.
6. Frenette, P.S., Mayadas, T.N., Rayburn, H., Hynes, R.O., and Wagner, D.D. 1996. Susceptibility to infection and

altered hematopoiesis in mice deficient in both P- and E-selectins. *Cell* 84: 563-574.

7. Epperson, T.K., Patel, K.D., McEver, R.P. and Cummings, R.D. (2000) Noncovalent association of P-selectin glycoprotein ligand-1 and minimal determinants for binding to P-selectin. *J. Biol. Chem.* 275, 7839-7853.
8. Ramachandran, V., Williams, M., Yago, T., Schmidtke, D.W. and McEver, R.P. (2004) Dynamic alterations of membrane tethers stabilize leukocyte rolling on P-selectin. *Proc. Natl. Acad. Sci. U.S.A.* 101, 13519-13524.
9. Cambien, B. and Wagner, D.D. (2004) A new role in hemostasis for the adhesion receptor P-selectin. *Trends Mol Med* 10, 179-186.

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