EXBIO Antibodies

PRODUCT DATA SHEET

11-450-C025

Monoclonal Antibody to CD62P
Purified Antibody (0.025 mg)

Clone: HI62P

Isotype: Mouse IgG1

Specificity: The antibody HI62P recognizes CD62P (P-selectin), a 140 kD single chain type I transmembrane glycoprotein present in secretory alpha-granules in platelets, in Weibel-Palade bodies in endothelial cells and in megakaryocytes; it is relocated to the plasma membrane upon activation.

Immunogen: Human platelets

Species Reactivity: Human

Application: Flow Cytometry
Western Blotting

Purity: > 95% (by SDS-PAGE)

Purification: Purified by protein A

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Expiration: See vial label

Lot Number: See vial label

Background: CD62P (P-selectin) is an adhesion glycoprotein that is expressed on platelets and endothelial cells upon their activation. Interaction between CD62P and its mucin-like ligand PSGL-1 (P-selectin glycoprotein ligand-1) expressed on the microvilli of most leukocytes supports leukocyte rolling along postkapillary venules at the earliest time of inflammation. Both CD62P and PSGL-1 are extended glycoproteins that form homodimers. CD62P dimerization is probably mediated through interactions of the transmembrane domains and stabilizes leukocyte tethering and rolling, probably by increasing rebinding within a bond cluster.

References:

*Ramachandran V, Yago T, Epperson TK, Kobzdej MM, Nollert MU, Cummings RD, Zhu C, McEver RP: Dimerization of a selectin and its ligand stabilizes cell rolling and enhances tether strength in shear flow. Proc Natl Acad Sci U S A. 2001 Aug 28;98(18):10166-71.
*Ramachandran V, Williams M, Yago T, Schmidtke DW, McEver RP: Dynamic alterations of membrane tethers stabilize leukocyte rolling on P-selectin. Proc Natl Acad Sci U S A. 2004 Sep 14;101(37):13519-24.
*Martinez M, Joffraud M, Giraud S, Baïsse B, Bernimoulin MP, Schapira M, Spertini O: Regulation of PSGL-1 interactions with L-selectin, P-selectin, and E-selectin: role of human fucosyltransferase-IV and -VII. J Biol Chem. 2005 Feb 18;280(7):5378-90.
*Harakawa N, Shigeta A, Wato M, Merrill-Skoloff G, Furie BC, Furie B, Okazaki T, Domae N, Miyasaka M, Hirata T. P-selectin glycoprotein ligand-1 mediates L-selectin-independent leukocyte rolling in high endothelial venules of peripheral lymph nodes. Int Immunol. 2007 Mar;19(3):321-9.

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