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Monoclonal Antibody to CD62P / P-Selectin - FITC

Alternate names: CD62 antigen-like family member P, GMP-140, GMRP, GRMP, Granule membrane protein 140, LECAM3, Leukocyte-endothelial cell adhesion molecule 3, PADGEM, SELP

Catalog No.: SM1150F

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

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.

Uniprot ID: P16109

NCBI: NP_002996.2

GeneID: 6403

Host / Isotype: Mouse / IgG1

Clone: AK-6

Immunogen: Human platelet membrane glycoproteins.

Format:
State: Liquid purified IgG fraction.
Purification: Affinity Chromatography on Protein G.
Buffer Solution: PBS
Preservatives: 0.09% Sodium Azide
Stabilizers: 1% BSA
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications:
Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 10^6 cells in 100 µl.
We recommend that this antibody be carefully titred against any previous batches to enable correct comparisons to be made with earlier results.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts with a 140 kD antigen expressed on activated platelets and also on endothelial cells both of blood and lymph vessels.

Species Reactivity:
Tested: Human.
Expected from sequence similarity: Rhesus Monkey.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General References:

1. Dunlop, L.C. et al. (1992) Characterization of GMP-140 (P-selectin) as a circulating plasma protein. J. Exp. Med. 175: 1147-1150.
2. Skinner, M.P. et al. (1989) Characterization of human platelet GMP-140 as a heparin-binding protein. Biochem. Biophys. Res. Commun. 164 (3): 1373-1379.
3. Skinner, M.P. et al. (1991) GMP-140 binding to neutrophils is inhibited by sulfated glycans. J. Biol. Chem. 266: 5371-5374.
4. Sopper, S. et al. (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of Rhesus monkeys. Cytometry 29: 351-362.
5. Bevilacqua, M.P. et al. (1993) Selectins J. Clin. Invest. 91: 379
6. Kitaya, K. & Yasuo, T. (2010) Aberrant expression of selectin E, CXCL1, and CXCL13 in chronic endometritis. Mod Pathol. 2010 Aug;23(8):1136-46. Epub 2010 May 21.
7. Dalli, J. et al. (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. Blood. 112: 2512-2519.

Pictures:

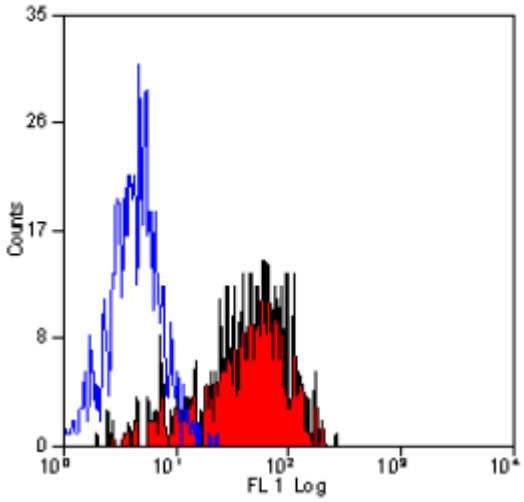

Figure 1. Staining of thrombin activated human peripheral blood platelets with Mouse Anti-Human CD62P-FITC (SM1150F/FT).