

Anti-Human/Mouse CD62P (P-Selectin) PE

Catalog Number :04721-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: Psel.KO2.3

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Human, Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The Psel.KO2.3 monoclonal antibody specifically reacts with mouse CD62P (P-Selectin), a 140 kDA type I transmembrane glycoprotein also known as granule membrane protein 140 (GMP-140). Upon activation it is quickly transported to the plasma membrane from the alpha-granules of platelets and WEibel-Palade bodies of endothelial cells. It is essential to the functions of cell adhesion during inflammatory reactions and in the interaction of platelets with monocytes and neutrophils. The Psel.KO2.3 antibody does not block adhesion and binds to an epitope common to several species including mouse, human, and rat.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Massagué, A., Engel, P., Pérez-del-Pulgar, S., Bosch, J., Pizcueta, P. (2000). Production and characterization of monoclonal antibodies against conserved epitopes of P-selectin (CD62P).; *Tissue antigens*; 56(2), 117-128.
2. Kansas, G. S. (1996). Selectins and their ligands: current concepts and controversies.; *Blood*; 88(9), 3259-3287.
3. Bullard, D. C., Kunkel, E. J., Kubo, H., Hicks, M. J., Lorenzo, I., Doyle, N. A., ... Beaudet, A. L. (1996). Infectious susceptibility and severe deficiency of leukocyte rolling and recruitment in E-selectin and P-selectin double mutant mice.; *The Journal of experimental medicine*; 183(5), 2329-2336.