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Technical Data Sheet

# Anti-Human CD62P (P-Selectin) PE

Catalogue Number : 04711-60

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

## Product Information

**Clone:** AK-4

**Format/Conjugate:** PE

**Concentration:** 5 uL (0.125 ug)/test

**Reactivity:** Human

**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 AK-4 monoclonal antibody specifically reacts with human CD62P (P-Selectin), a 140 kDA type I transmembrane glycoprotein also known as platelet activation-dependent granule membrane protein (PADGEM). 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.

## 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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

## References

1.Leucocyte Typing VI: White Cell Differentiation Antigens: Proceedings of the Sixth International Workshop and Conference Held in Kobe, Japan, 10-14 November 1996. Garland Pub., 1998.

2. Schlossman, S. F. (1995).;Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.

3. Johnson-Tidey, R. R., McGregor, J. L., Taylor, P. R., ; Poston, R. N. (1994). Increase in the adhesion molecule P-selectin in endothelium overlying atherosclerotic plaques. Coexpression with intercellular adhesion molecule-1.The American journal of pathology,;144(5), 952.

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