

Anti-Human CD31 (PECAM-1) FITC

Catalogue Number : 03411-50

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

Product Information

Clone: WM59

Format/Conjugate: FITC

Concentration: 5uL (1.0ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

Brightness (1=dim,5=brightest): 3

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 WM59 monoclonal antibody specifically reacts with human CD31, a 130-140 kDA type I transmembrane glycoprotein also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1) or Endocam. CD31 is reported to bind to CD38 and is expressed on platelets, monocytes, granulocytes, and endothelial cells. It plays a role in angiogenesis, wound healing, cellular migration, and signal transduction.

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

- 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.
- Porat, Y., Porozov, S., Belkin, D., Shimoni, D., Fisher, Y., Belleli, A., ... Savion, N. (2006). Isolation of an adult blood-derived progenitor cell population capable of differentiation into angiogenic, myocardial and neural lineages. *British journal of haematology*,;135(5), 703-714.
- Vaporciyan, A. A., DeLisser, H. M., Yan, H. C., Jones, M. L., Ward, P. A., Albelda, S. M. (1993). Involvement of platelet-endothelial cell adhesion molecule-1 in neutrophil recruitment in vivo.; *Science*,;262(5139), 1580-1582.