

Anti-Human CD31 (PECAM-1) Purified

Catalog Number :03411-20

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

Product Information

Clone: WM59

Format/Conjugate: Purified

Concentration: 0.5 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

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, IHC

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. It is recommended that the reagent be titrated for optimal performance for each application.

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.