

## 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:** 0.2 mg/ml

**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

1. 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.

population capable of differentiation into angiogenic, myocardial and neural lineages. *British journal of haematology*,;135(5), 703-714.

3. 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.