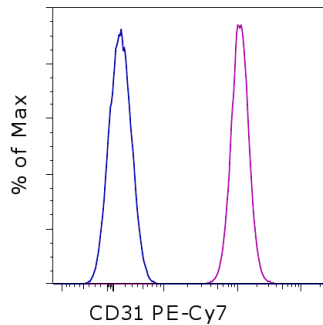


## Anti-Human CD31 (PECAM-1) PE-Cyanine7

**Catalog Number:** 25-0319

**Also known as:** Platelet-Endothelial Cell Adhesion Molecule 1

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



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (blue histogram) or Anti-Human CD31 (PECAM-1) PE-Cyanine7 (purple histogram). Cells in the granulocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD31 (PECAM-1)  
PE-Cyanine7

**REF** **Catalog Number:** 25-0319

**Clone:** WM-59 (WM59)

**Concentration:** 5 uL (0.06 ug)/test

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** V P025

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



**LOT**



**Batch Code:** Refer to vial

**Use By:** Refer to vial

### Description

The WM59 monoclonal antibody reacts with human CD31, also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1) and gpIIa. This 130-140 kDa surface protein is expressed by endothelial cells and at low levels on leukocytes and platelets. It has been reported that CD38 binds to CD31. Homotypic interaction of CD31 is important in adhesion, cell-cell and cell-matrix interaction, and signal transduction.

### Applications Reported

This WM-59 (WM59) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This WM-59 (WM59) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### References

Porat Y, Porozov S, Belkin D, Shimoni D, Fisher Y, Belleli A, Czeiger D, Silverman WF, Belkin M, Battler A, Fulga V,

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Savion N. Isolation of an adult blood-derived progenitor cell population capable of differentiation into angiogenic, myocardial and neural lineages. *British Journal of Haematology* 2006 (**WM-59**, ICC, PubMed)

Kishimoto, T., A.E.G., von dem Borne, et al. eds. (1998) *Leucocyte Typing VI: White Cell Differentiation Antigens*. Garland Publishing, Inc. London.

Schlossman, S., L. Bloumsell, et al. eds. 1995. *Leucocyte Typing V: White Cell Differentiation Antigens*. Oxford University Press. New York.

### Related Products

25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

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