

Technical Data Sheet

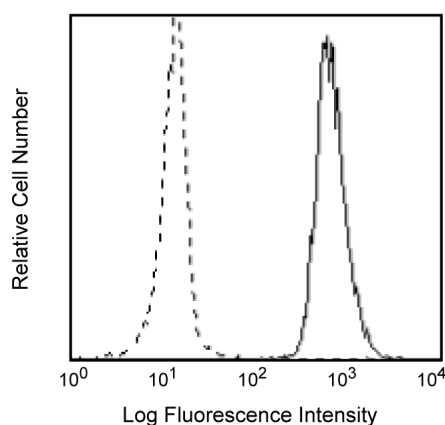
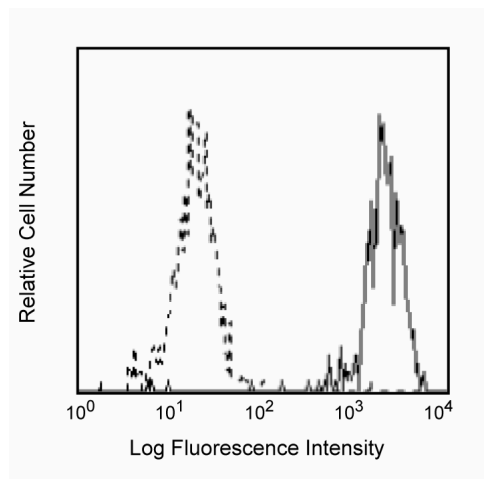
PE Mouse Anti-Human CD31

Product Information

Material Number:	560983
Alternate Name:	EndoCAM; GPIIA'; PECA1; PECAM1; Platelet endothelial cell adhesion molecule
Size:	25 tests
Vol. per Test:	20 µl
Clone:	WM59
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	V P025
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The WM59 monoclonal antibody specifically binds to a 130 kDa glycoprotein, gpIIa', also known as platelet endothelial cell adhesion molecule-1, (PECAM-1). CD31 has wide tissue distribution and is expressed on platelets, monocytes, granulocytes, and in high amounts on endothelial cells. This molecule has been implicated in a number of cellular phenomena, including vascular wound healing and angiogenesis, and transendothelial migration of leukocytes in inflammatory responses.



Profile of peripheral blood monocytes (left panel) and granulocytes (right panel) analyzed on a FACScan (BDIS, San Jose, CA).

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry

Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

Product Notices

- This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
- Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

- DeLisser HM, Newman PJ, Albelda SM. Platelet endothelial cell adhesion molecule (CD31). *Curr Top Microbiol Immunol*. 1993; 184:37-45. (Biology)
- Muller WA, Weigl SA, Deng X, Phillips DM. PECAM-1 is required for transendothelial migration of leukocytes. *J Exp Med*. 1993; 178(2):449-460. (Biology)
- Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995. (Biology)
- Vaporciyan AA, DeLisser HM, Yan HC, et al. Involvement of platelet-endothelial cell adhesion molecule-1 in neutrophil recruitment in vivo. *Science*. 1993; 262(5139):1580-1582. (Biology)