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ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

CD31 Antibody [WM59] (PE)

CATALOG NUMBER: 76-164

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	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.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	0.2 mg/ml
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1, kappa
CONJUGATE:	PE

Additional Info

ALTERNATE NAMES:	CD31, PECA1, GPIIA', PECAM-1, endoCAM, CD31/EndoCAM, PECAM1
OFFICIAL SYMBOL:	PECAM1
GENE ID:	5175

Background

BACKGROUND:	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.
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.
	2) 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.
	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.

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