

## The path to legendary discovery™

## **Product Data Sheet**

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## Pacific Blue<sup>™</sup> anti-human CD31

Catalog # / Size:	303113 / 25 µg 303114 / 100 µg	1					
Clone:	WM59			и			
Isotype:	Mouse IgG1, κ						
Workshop Number:	V P025	-adi		n.	A		
Reactivity:	Human, Cross-Reactivity: African Green, Baboon, Cynomolgus, Rhesus	Cell Numbe		- 14 📋			
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Pacific Blue <sup>™</sup> under optimal conditions. The solution is free of unconjugated Pacific Blue <sup>™</sup> .	felative Ce					
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	-					
Concentration:	0.5 mg/ml			الباني ا	w <sup>4</sup> W	No.	
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. <b>Do not freeze.</b>	10	ο	10 <sup>1</sup> Log Flu	10 <sup>2</sup> vorescence In	10 <sup>3</sup> ntensity	1
Application	S:	W	ere sta	ained w	eral blood ı ⁄ith CD31 ( Blue™ (fill	(clone	5

## Applications:

Applications:	FC - Quality tested		WM59) Pacific Blue™ (filled histogram) or mouse IgG1, κ Pacific			
Recommended Usage:	Each lot of this antibody is quality control tested by immun staining with flow cytometric analysis. For immunofluores suggested use of this reagent is $\leq 2.0 \ \mu g \ per \ 10^6 \ cells$ in 100 $\mu l$ of whole blood. It is recommended that the reagent optimal performance for each application.	cent staining, the 100 µl volume or	Blue™ isotype control (open histogram).			
	<ul> <li>* Pacific Blue<sup>™</sup> has a maximum emission of 455 nm wher nm. Prior to using Pacific Blue<sup>™</sup> conjugate for flow cytome please verify your flow cytometer's capability of exciting a fluorochrome.</li> <li>** Pacific Blue<sup>™</sup> is a registered trademark of Molecular Pr Blue<sup>™</sup> dye antibody conjugates are sold under license fro Probes, Inc. for research use only, except for use in comb microarrays and high content screening, and are covered issued patents.</li> </ul>	etric analysis, nd detecting the robes, Inc. Pacific m Molecular pination with				
Application Notes:	Additional reported applications (for the relevant formats) include: immunofluorescence microscopy <sup>2</sup> , immunohistochemical staining of acetone-fixed frozen tissue sections, and blocking of platelet aggregation <sup>3</sup> . Clone WM59 is not recommended for immunohistochemical staining of formalin-fixed paraffin-embedded sections. The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303108).					
Application References:	1. Schlossman S, et al. Eds. 1995. Leucocyte Typing V O 2. Muczynski KA, et al. 2003. J. Am. Soc. Nephrol. 14:133 3. Wu XW, et al. 1997. Arterioscl. Throm. Vas. 17:3154. (1 4. Nagano M, et al. 2007. Blood 110:151. (FC) PubMed 5. MacFadyen JR, et al. 2005. FEBS Lett. 579:2569. Publ 6. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC) 7. Sestak K, et al. 2007. Vet. Immunol. Immunopathol. 11 8. Wicki A, et al. 2012. Clin Cancer Res. 18:454. PubM 9. Oeztuerk-Winder F, et al. 2012. EMBO J. 31:3431. (F	36. (IF) Block) Med 9:21. led	. New York.			
Description:	CD31 is a 130-140 kD type I transmembrane glycoprotein also known as platelet endothelial cell adhesion molecule-1 (PECAM-1) or Endocam. It is expressed on monocytes, platelets, granulocytes, endothelial cells and lymphocyte subsets. CD31 has been reported to bind CD38 and be involved in wound healing, angiogenesis, and cellular migration in an inflammatory situation. Clone WM59 has been reported to recognize the D2 extracellular portion of CD31.					
Antigen References:	<ol> <li>DeLisser H, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:490.</li> <li>Newman P. 1997. <i>J. Clin. Invest.</i> 99:3.</li> <li>Fawcett J, <i>et al.</i> 1995. <i>J. Cell Biol.</i> 128:1229.</li> </ol>					
Related Products	: <b>Product</b> Pacific Blue™ Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer	Clone MOPC-21	Application FC, ICFC FC, ICC, ICFC			
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