

Product Data Sheet

PE anti-human CD31

Catalog # / Size: 303105 / 25 tests
303106 / 100 tests

Clone: WM59

Isotype: Mouse IgG1, κ

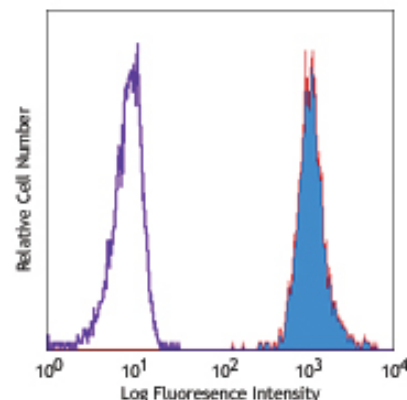
Workshop Number: V P025

Reactivity: Human, **Cross-Reactivity:** African Green, Baboon, Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral granulocytes were stained with CD31 (clone WM59) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence microscopy², immunohistochemical staining of acetone-fixed frozen tissue sections, and blocking of platelet aggregation³. Clone WM59 is not recommended for immunohistochemical staining of formalin-fixed paraffin-embedded sections. The LEAF™ Purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 303108).

Application References:

- Schlossman S, *et al.* 1995. Leucocyte Typing V Oxford University Press. New York.
- Muczynski KA, *et al.* 2003. *J. Am. Soc. Nephrol.* 14:1336. (IF)
- Wu XW, *et al.* 1997. *Arterioscl. Throm. Vas.* 17:3154. (Block)
- Nagano M, *et al.* 2007. *Blood* 110:151. (FC) PubMed
- MacFadyen JR, *et al.* 2005. *FEBS Lett.* 579:2569. PubMed
- Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
- Sestak K, *et al.* 2007. *Vet. Immunol. Immunopathol.* 119:21.
- Wicki A, *et al.* 2012. *Clin Cancer Res.* 18:454. PubMed
- Oeztuerk-Winder F, *et al.* 2012. *EMBO J.* 31:3431. (FC) PubMed

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:

- DeLisser H, *et al.* 1994. *Immunol. Today* 15:490.
- Newman P. 1997. *J. Clin. Invest.* 99:3.
- Fawcett J, *et al.* 1995. *J. Cell Biol.* 128:1229.

Related Products:

Product
 PE anti-human CD38
 PE anti-human CD106
 PE Mouse IgG1, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 HIT2
 STA
 MOPC-21

Application
 FC
 FC
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



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