

Purified anti-human CD31

Catalog # / Size: 2115505 / 25 µg
2115510 / 100 µg

Clone: WM59

Isotype: Mouse IgG1, κ

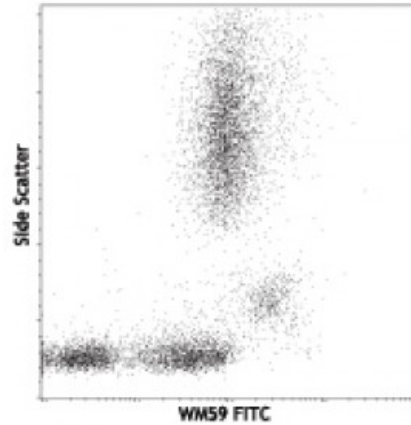
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: V P025

Concentration: 0.5



Human peripheral blood lymphocytes, monocytes and granulocytes stained with purified WM59, then detected with anti-mouse IgG FITC

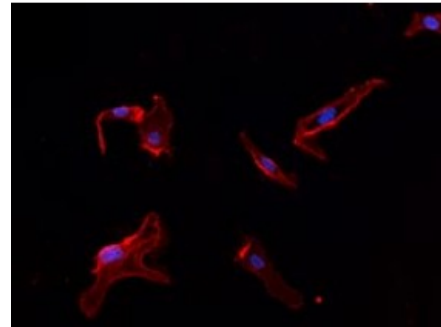
Applications:

Applications: Immunofluorescence

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. For immunofluorescence microscopy, a concentration range of 2.5-10 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Clone WM59 has been reported to recognize the D2 extracellular portion of CD31.

Additional reported applications (for the relevant formats) include: immunofluorescence microscopy², immunohistochemical staining of acetone-fixed frozen tissue sections⁸, 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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303108).



HUVEC cells were fixed with 1% paraformaldehyde (PFA) and blocked with 5% fetal bovine serum for 30 minutes at room temperature. Then the cells were stained with 10 microg/ml of purified anti-CD31 (clone WM59) overnight, followed by 2.5 microg/ml DyLi

Application 1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V Oxford University Press.

- References:** New York.
2. Muczynski KA, *et al.* 2003. *J. Am. Soc. Nephrol.* 14:1336. (IF)
 3. Wu XW, *et al.* 1997. *Arterioscl. Throm. Vas.* 17:3154. (Block)
 4. Nagano M, *et al.* 2007. *Blood* 110:151. (FC) [PubMed](#)
 5. MacFadyen JR, *et al.* 2005. *FEBS Lett.* 579:2569. [PubMed](#)
 6. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 7. Sestak K, *et al.* 2007. *Vet. Immunol. Immunopathol.* 119:21.
 8. Wicki A, *et al.* 2012. *Clin. Cancer Res.* 18:454. (FC, IHC) [PubMed](#)
 9. Oeztuerk-Winder F, *et al.* 2012. *EMBO J.* 31:3431. (FC) [PubMed](#)
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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.

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