Alexa Fluor® 700 anti-human CD31

Catalog # / Size: 2115670 / 100 tests

2115665 / 25 tests

Clone:

Isotype: Mouse IgG1, κ

Reactivity: Human

The antibody was purified by affinity **Preparation:**

chromatography and conjugated with

Alexa Fluor® 700 under optimal

conditions.

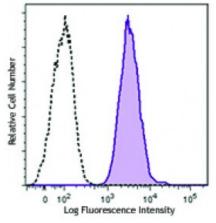
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop Number: V P025

Concentration: Lot-specific



Human peripheral blood granulocytes were stained with CD31 (clone WM59) Alexa Fluor® 700 (filled histogram) or mouse IgG1, κ Alexa Fluor® 700 isotype control (open histogram).

Applications:

Flow Cytometry **Applications:**

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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

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 acetonefixed frozen tissue sections⁸, and blocking of platelet aggregation3, Clone WM59 is not recommended for immunohistochemical staining of formalin-fixed paraffinembedded 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 Oxford University Press. 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

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: DeLisser H, et al. 1994. Immunol. Today 15:490.
Newman P, 1997. J. Clin. Invest. 99:3.

3. Fawcett J, et al. 1995. J. Cell Biol. 128:1229.