Technical Data Sheet

Alexa Fluor® 488 Mouse Anti-Human CD31

Product Information

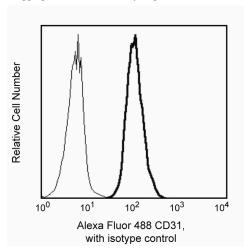
Material Number: 558068 PECAM-1 Alternate Name: 100 tests Size 5 ul Vol. per Test: M89D3 Clone: Mouse IgG2a, κ Isotype: QC Testing: Human Reactivity:

Workshop:

Aqueous buffered solution containing BSA and ≤0.09% sodium azide. Storage Buffer:

Description

Reacts with CD31, also known as platelet endothelial cell adhesion molecule - 1 (PECAM-1), a sigle chain, type I transmembrane protein of approximately 130 - 140 kDa. CD31 is a member of the immunoglobulin supergene family, its extracellular region is composed of 574 aminoacids and contains six C2-type Ig domains, its intracellular region is composed of 118 residues. CD31 (PECAM-1) is expressed on endothelial cells, platelets, monocytes, neutrophils and NK cells. It has also been observed on subsets of T cells, but not on circulating B cells. It has been implicated in a number of cellular phenomena, including vascular wound healing, angiogenesis, and transendothelial migration of leukocytes and platelet aggregation in inflammatory responses.



Profile of CD31 (M89D3) reactivity on peripheralblood granulocytes analyzed by flow cytometry.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 488 under optimum conditions, and unreacted Alexa Fluor® 488 was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry Routinely Tested

Suggested Companion Products

Catalog Number Clone Alexa Fluor® 488 Mouse IgG2a, κ Isotype Control 557703 G155-178

Product Notices

- This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^{\circ}6$ cells in a 100- μ l experimental sample (a test).
- 2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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- 4. Alexa Fluor® 488 fluorochrome emission is collected at the same instrument settings as for fluorescein isothiocyanate (FITC).
- 5. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
- 6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 8. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.

References

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Simmons DL, Walker C, Power C, Pigott R. Molecular cloning of CD31, a putative intercellular adhesion molecule closely related to carcinoembryonic antigen. *J Exp Med.* 1990 June; 171(6):2147-2152. (Biology)

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Vaporciyan AA, DeLisser HM, Yan HC, et al. Involvement of platelet-endothelial cell adhesion molecule-1 in neutrophil recruitment in vivo. *Science*. 1993; 262(5139):1580-1582. (Biology)

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