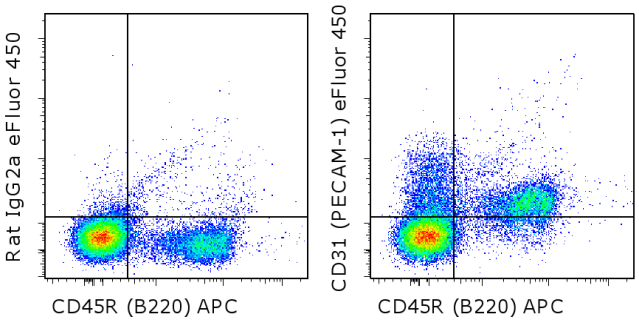
Anti-Mouse CD31 (PECAM-1) eFluor® 450

Catalog Number: 48-0311
Also known as: Platelet-Endothelial Cell Adhesion Molecule 1, PE-CAM1
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of BALB/c bone marrow cells with Anti-Human/Mouse CD45R (B220) APC (cat. 17-0452) and 0.125 ug of Rat IgG2a Isotype Control eFluor® 450 (cat. 48-4321) (left) or 0.125 ug of Anti-Mouse CD31 (PECAM-1) eFluor® 450 (right). Cells in the small scatter population were used for analysis.

Product Information

Contents: Anti-Mouse CD31 (PECAM-1) eFluor® 450
REF **Catalog Number:** 48-0311
Clone: 390
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. DO NOT FREEZE. LIGHT-SENSITIVE MATERIAL.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

The 390 monoclonal antibody reacts with mouse CD31, also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1) and gpIIa. This 130-140 kDa surface protein is expressed by endothelial cells and at low levels on all leukocytes and platelets. It has been reported that CD38 binds to CD31. Homotypic interaction of CD31 is important in adhesion, cell-cell and cell-matrix interaction, and signal transduction.

Applications Reported

This 390 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 390 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

References

Sadri N, Schneider RJ. Auf1/Hnrnpd-Deficient Mice Develop Pruritic Inflammatory Skin Disease. J Invest Dermatol. 2009 Mar;129(3):657-70. (**390**, IHC frozen, PubMed)

Cao G, O'Brien CD, Zhou Z, Sanders SM, Greenbaum JN, Makrigiannakis A, DeLisser HM. Involvement of human PECAM-1 in angiogenesis and in vitro endothelial cell migration. Am J Physiol Cell Physiol. 2002 May;282(5):C1181-90. (**390**, IHC frozen)

Wiewrodt R, Anu P. Thomas, Luca Cipelletti, Melpo Christofidou-Solomidou, David A. Weitz, Sheldon I. Feinstein, David Schaffer, Steven M. Albelda, Michael Koval, and Vladimir R. Muzykantov. Size-dependent intracellular

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immunotargeting of therapeutic cargoes into endothelial cells.Blood. 2002 Feb 1;99(3):912-22.

Horenstein AL, Stockinger H, Imhof BA, Malavasi F. CD38 binding to human myeloid cells is mediated by mouse and human CD31. Biochem J. 1998 Mar 15;330 (Pt 3):1129-35.

Baldwin HS, Shen HM, Yan HC, DeLisser HM, Chung A, Mickanin C, Trask T, Kirschbaum NE, Newman PJ, Albelda SM, et al. Platelet endothelial cell adhesion molecule-1 (PECAM-1/CD31): alternatively spliced, functionally distinct isoforms expressed during mammalian cardiovascular development. Development. 1994 Sep;120(9):2539-53.

Related Products
17-0452 Anti-Human/Mouse CD45R (B220) APC (RA3-6B2)
48-4321 Rat IgG2a K Isotype Control eFluor® 450 (eBR2a)

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