

CD31 Rat Anti-Mouse Monoclonal Antibody (clone 390) PE Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008420 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A16201	PE	50 µg (0.2 mg/mL)	496 nm	578 nm

Clone	390
Host/Class	Rat IgG _{2aκ}
Description	The CD31 Rat Anti-Mouse Monoclonal Antibody recognizes mouse CD31, a 130–140 kDa surface protein involved in homotypic adhesion, cell-cell and cell-matrix interaction, and signal transduction. It is expressed by endothelial cells and at low levels on all leukocytes and platelets.
Alternate Names	PECAM-1 (platelet-endothelial cell adhesion molecule-1), gpIIa
Reactivity	Mouse CD31
Applications*	FC (mouse thymocyte and splenocyte suspensions), IHC(F) ^{1,2}
Storage Buffer	The reagent is provided in aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer. CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support .
Storage	Store reagents in the dark at 2° to 8°C. Do not freeze. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Avoid prolonged light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.
Stability	When stored as instructed, expires one year from date of receipt unless otherwise indicated on Certificate of Analysis.
Lot Number	See product label.
References	<ol style="list-style-type: none"> Sadri N, Schneider RJ. Auf1/Hnrnpd-Deficient Mice Develop Pruritic Inflammatory Skin Disease. <i>J Invest Dermatol</i>. 2009 Mar;129(3):657-70. 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. <i>Am J Physiol Cell Physiol</i>. 2002 May;282(5):C1181-90. 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 immunotargeting of therapeutic cargoes into endothelial cells. <i>Blood</i>. 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. <i>Biochem J</i>. 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. <i>Development</i>. 1994 Sep;120(9):2539-53.

* Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

FC = flow cytometry; FUNC = functional assay; ICC = immunocytochemistry; IHC(F) = immunohistochemistry (frozen sample); IHC(P) = immunohistochemistry (paraffin embedded sample); IP = immunoprecipitation; RIA = radioimmunoassay; WB = western blot

For Research Use Only. Not for use in diagnostic procedures.

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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