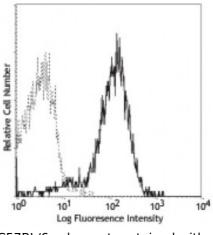
Product Data Sheet

Purified anti-mouse CD31

Catalog # / Size:	1112005 / 50 μg 1112010 / 500 μg
Clone:	390
Isotype:	Rat IgG2a, к
Immunogen:	C3H/HeJ mouse hematopoietic progenitor cell line 3
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 splenocytes stained with 390 PE

Applications:

Applications:	Other
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 \leq 1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes: Application References:	 Anti-mouse CD31 clones 390 and MEC13.3 bind to their respective non-overlapping epitopes in IgD2 of CD31.⁸ Additional reported applications (for the relevant formats) include: immunoprecipitation1, <i>in vitro</i> and <i>in vivo</i> blocking of CD31-mediated cell-cell interactions¹⁻⁴, and immunohistochemical staining^{5,6,7} of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections. Special Note: This antibody is not recommended for 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. 102412). 1. Baldwin HS, <i>et al.</i> 1994. <i>Development</i> 120:2539. (IP, Block) 2. DeLisser HM, <i>et al.</i> 1997. <i>Am. J. Pathol.</i> 151:671. (Block) 3. Rosenblum WI, <i>et al.</i> 1996. <i>Stroke</i> 27:709. (Block) 4. Iguchi A, <i>et al.</i> 1997. <i>Cell Struct. Funct.</i> 22:357. (Block) 5. Wyder L, <i>et al.</i> 2000. <i>Cancer Res.</i> 60:4682. (IHC) 6. Wiewrodt R, <i>et al.</i> 2009. <i>Stem Cells.</i> 27:623. (IHC) PubMed 8. Chacko AM, <i>et al.</i> 2013. <i>PLoS One</i> 7:e34958. 9. Greineder CF, <i>et al.</i> 2013. <i>PLoS One.</i> 14:80110. PubMed
Description:	CD31 is a 130-140 kD glycoprotein, also known as platelet endothelial cell adhesion molecule (PECAM-1) and EndoCAM. It is a member of the Ig superfamily, expressed on endothelial cells, platelets, granulocytes, monocytes/macrophages, dendritic cells, and T and B cell subsets, and is critical for cell-cell interactions. The primary ligands for CD31 have been reported to be CD38 and the vitronectin receptor ($\alpha_v \beta_3$ integrin, CD51/CD61). Other reported functions of CD31 are neutrophil emigration to sites of inflammation and angiogenesis.
Antigen	1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.

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 References:
 2. DeLisser HM, et al. 1994. Immunol. Today 15:490.

 3. Newman PJ, et al. 1990. Science 247:1219.

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