## FITC anti-mouse CD31

Catalog # / Size: 1112030 / 500 µg

1112025 / 50 μg

Clone:

Isotype: Rat IgG2a, ĸ

C3H/HeJ mouse hematopoietic Immunogen:

progenitor cell line 3

Reactivity: Mouse

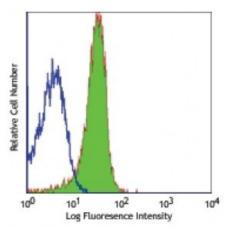
**Preparation:** The antibody was purified by affinity

chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

**Concentration:** 0.5



C57BL/6 mouse splenocytes stained

with 390 FITC

## **Applications:**

**Applications:** Flow Cytometry

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 ≤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: 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, in vitro and in vivo blocking of CD31-mediated cell-cell interactions<sup>1-4</sup>, and immunohistochemical staining<sup>5,6,7</sup> 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<sup>™</sup> purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm

filtered) is recommended for functional assays (Cat. No. 102412).

**Application** References: 1. Baldwin HS, et al. 1994. Development 120:2539. (IP, Block)

2. DeLisser HM, et al. 1997. Am. J. Pathol. 151:671. (Block)

3. Rosenblum WI, et al. 1996. Stroke 27:709. (Block)

4. Iguchi A, et al. 1997. Cell Struct. Funct. 22:357. (Block)

5. Wyder L, et al. 2000. Cancer Res. 60:4682. (IHC) 6. Wiewrodt R, et al. 2002. Blood 99:912. (IHC)

7. McQualter JL, et al. 2009. Stem Cells. 27:623. (IHC) PubMed

8. Chacko AM, et al. 2012. PLoS One 7:e34958.

**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.

1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press. **Antigen** 

R	eferences:	<ol> <li>DeLisser HM, et al. 1994. Immunol. Today 15:490.</li> <li>Newman PJ, et al. 1990. Science 247:1219.</li> </ol>
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