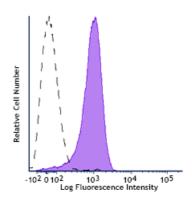
Alexa Fluor® 700 anti-mouse CD31

Catalog # / Size:	1112215 / 25 µg
Clone:	390
lsotype:	Rat IgG2a, к
Immunogen:	C3H/HeJ mouse hematopoietic progenitor cell line 3
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Concentration:	0.5 mg/mL



C57BL/6 mouse splenocytes were stained with CD31 (clone 390) Alexa Fluor® 700 (filled histogram) or rat IgG2a, κ Alexa Fluor® 700 isotype control (open histogram).

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 $\leq 0.25 \ \mu g$ per million cells in 100 μL volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
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: immunoprecipitation ¹ , <i>in vitro</i> and <i>in vivo</i> blocking of CD31-mediated cell-cell interactions ¹⁻⁴ , 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.
Application References:	 Baldwin HS, et al. 1994. Development 120:2539. (IP, Block) DeLisser HM, et al. 1997. Am. J. Pathol. 151:671. (Block) Rosenblum WI, et al. 1996. Stroke 27:709. (Block) Iguchi A, et al. 1997. Cell Struct. Funct. 22:357. (Block) Wyder L, et al. 2000. Cancer Res. 60:4682. (IHC) Wiewrodt R, et al. 2002. Blood 99:912. (IHC) McQualter JL, et al. 2009. Stem Cells. 27:623. (IHC) PubMed Chacko AM, et al. 2012. PLoS One 7:e34958. Greineder CF, et al. 2013. PLoS One. 14:80110. PubMed

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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 i critical for cell-cell interactions. The primary ligands for CD31 have bee reported to be CD38 and the vitronectin receptor ($\alpha_v \beta_3$ integrin, CD51/CD61). Other reported functions of CD31 are neutrophil emigration sites of inflammation and angiogenesis.

Antigen1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook AcademicReferences:Press.2. DeLisser HM, et al. 1994. Immunol. Today 15:490.

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