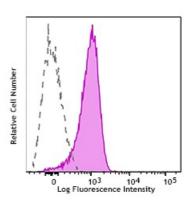
APC/Fire[™] 750 anti-mouse CD31

Catalog # / Size:	1112640 / 100 μg 1112635 / 25 μg
Clone:	MEC13.3
lsotype:	Rat IgG2a, к
Immunogen:	Polyoma middle T transformed EC line tEnd.1
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire [™] 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	750 under optimal conditions.
Concentration:	0.2 mg/ml

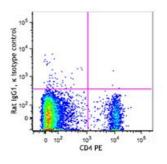


C57BL/6 were stained with CD31 (clone MEC13.3) APC/Fire™ 750 (filled histogram) or rat IgG2a, к APC/Fire™ 750 isotype control (open histogram).

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 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

* APC/Fire[™] 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.



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 (in the relevant formats) include: immunoprecipitation ¹ , <i>in</i> <i>vitro</i> and <i>in vivo</i> blocking of CD31- mediated cell-cell interactions ^{1.4} , and immunohistochemical staining ^{1,5,6} of acetone-fixed frozen sections and zinc-fixed paraffin- embedded sections. Special Note: The antibody works well on acetone-fixed frozen sections as well as Zinc-fixed paraffin- embedded sections. It sometime works on formalin-fixed and paraformaldehyde-fixed paraffin- embedded tissue sections but inconsistent results have been reported. This antibody is not recommended for formalin-fixed paraffin-embedded sections or for Western blot analysis. The Ultra- LEAF ^m Purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 102529 and 102530).
Application References:	 Vecchi A, et al. 1994. Eur. J. Cell Biol. 63:247. (IP, IHC, Block) Christofidou-Solomidou M, et al. 1997. J. Immunol. 158:4872. (Block) DeLisser HM, et al. 1997. Am. J. Pathol. 151:671. (Block) Rosenblum WI, et al. 1994. Am. J. Pathol. 145:33. (Block) Baldwin HS, et al. 1994. Development 120:2539. (IHC) Voswinckel R, et al. 2003. Circ. Res. 93:372. (IHC) Leung VW, et al. 2009. Am J. Pathol. 175:1757. PubMed Chacko AM, et al. 2012. PLoS One 7:e34958. Giacomini C, et al. 2014. Exp Eye Res. 18:1. PubMed Morita R, et al. 2015. PNAS. 112:160. PubMed Ito A, et al. 2015. Brain Res. 1594:310. PubMed
Description:	CD31 is a 130-140 kD glycoprotein, also known as platelet endothelial cell adhesion molecule (PECAM-1), EndoCAM, and gplla. 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-to-cell interactions. The primary ligands for CD31 have been

monocytes/macrophages, dendritic cells, and T and B cell subsets, and is critical for cell-to-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.

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.