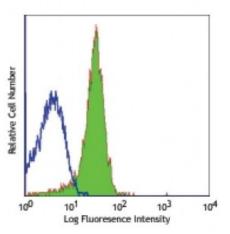
Product Data Sheet

Purified anti-mouse CD31

Catalog # / Size:	1112510 / 500 μg 1112505 / 50 μg
Clone:	MEC13.3
Isotype:	Rat IgG2a, к
Immunogen:	Polyoma middle T transformed EC line tEnd.1
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 mouse splenocytes stained with purified MEC13.3, followed by anti-rat IgG FITC

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:	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: immunoprecipitation1, <i>in 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 LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 102512).
Application References:	 Vecchi A, <i>et al.</i> 1994. <i>Eur. J. Cell Biol.</i> 63:247. (IP, IHC, Block) Christofidou-Solomidou M, <i>et al.</i> 1997. <i>J. Immunol.</i> 158:4872. (Block) DeLisser HM, <i>et al.</i> 1997. <i>Am. J. Pathol.</i> 151:671. (Block) Rosenblum WI, <i>et al.</i> 1994. <i>Am. J. Pathol.</i> 145:33. (Block) Baldwin HS, <i>et al.</i> 1994. <i>Development</i> 120:2539. (IHC) Voswinckel R, <i>et al.</i> 2003. <i>Circ. Res.</i> 93:372. (IHC) Leung VW, <i>et al.</i> 2009. <i>Am J. Pathol.</i> 175:1757. PubMed Chacko AM, <i>et al.</i> 2012. <i>PLoS One</i> 7:e34958. Giacomini C, <i>et al.</i> 2015. <i>PNAS.</i> 112:160. PubMed Morita R, <i>et al.</i> 2015. <i>Brain Res.</i> 1594:310. PubMed

Description: CD31 is a 130-140 kD glycoprotein, also known as platelet endothelial cell

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com 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 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.
2. DeLisser HM, *et al.* 1994. *Immunol. Today* 15:490.
3. Newman PJ, *et al.* 1990. *Science* 247:1219.