

## PerCP/Fire™ 780 anti-mouse CD31 (PECAM-1) Antibody

<b>Catalog# / Size</b>	160217 / 25 µg 160218 / 100 µg
<b>Clone</b>	W18222B
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	PECAM-1, EndoCAM
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	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 (α <sub>v</sub> β <sub>3</sub> integrin, CD51/CD61). Other reported functions of CD31 are neutrophil emigration to sites of inflammation and angiogenesis.

### Product Details

---

<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse CD31 transfected cell line
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Fire™ 780 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP/Fire™ 780 has a maximum excitation of 478 nm and a maximum emission of 780 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>RRID</b>	AB_3683174 (BioLegend Cat. No. 160217) AB_3683174 (BioLegend Cat. No. 160218)

### Antigen Details

---

<b>Structure</b>	Ig superfamily, 130-140 kD
<b>Distribution</b>	Endothelial cells, platelets, granulocytes, monocytes/macrophages, dendritic cells, T and B cell subsets
<b>Function</b>	Adhesion
<b>Ligand/Receptor</b>	CD38, α <sub>v</sub> β <sub>3</sub> integrin

<b>Cell Type</b>	B cells, Dendritic cells, Endothelial cells, Granulocytes, Macrophages, Monocytes, Neutrophils, Platelets, T cells
<b>Biology Area</b>	Angiogenesis, Cell Adhesion, Cell Biology, Immunology, Neuroinflammation, Neuroscience
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.</li> <li>2. DeLisser HM, et al. 1994. Immunol Today. 15:490-5.</li> <li>3. Newman PJ, et al. 1990. Science. 247:1219-22.</li> </ol>
<b>Gene ID</b>	<a href="#">18613</a>

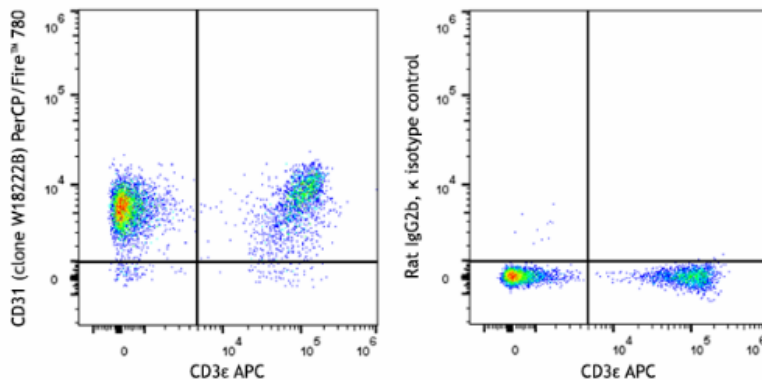
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

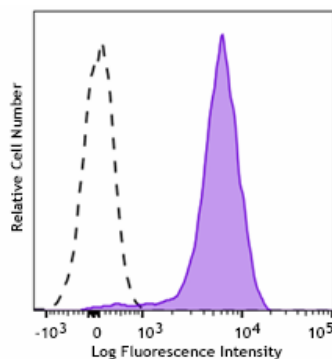
## Other Formats

PE anti-mouse CD31 (PECAM-1), Purified anti-mouse CD31 (PECAM-1), Alexa Fluor® 488 anti-mouse CD31 (PECAM-1) Antibody, APC anti-mouse CD31 (PECAM-1), PE/Cyanine7 anti-mouse CD31 (PECAM-1), FITC anti-mouse CD31 (PECAM-1), PerCP/Cyanine5.5 anti-mouse CD31 (PECAM-1), Pacific Blue™ anti-mouse CD31 (PECAM-1), PerCP/Fire™ 780 anti-mouse CD31 (PECAM-1), Spark Blue™ 550 anti-mouse CD31 (PECAM-1) (Flexi-Fluor™), Spark Blue™ 574 anti-mouse CD31 (PECAM-1) (Flexi-Fluor™) Antibody, Spark Red™ 718 anti-mouse CD31 (PECAM-1) (Flexi-Fluor™)

## Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) APC and anti-mouse CD31 (PECAM-1) (clone W18222B) PerCP/Fire™ 780 (left) or rat IgG2b, κ PerCP/Fire™ 780 isotype control (right).



C57BL/6 mouse splenocytes were stained with anti-mouse CD31 (PECAM-1) (clone W18222B) PerCP/Fire™ 780 (filled histogram) or rat IgG2b, κ PerCP/Fire™ 780 isotype control (open histogram).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at [www.biolegend.com/terms](http://www.biolegend.com/terms) ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587