

CD31 (PECAM-1) Monoclonal Antibody (390), Biotin, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	390
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466420

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	28 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	-	13 Publications
Flow Cytometry (Flow)	0.25 µg/test	95 Publications
ChIP assay (ChIP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	3 Publications

Product Specific Information

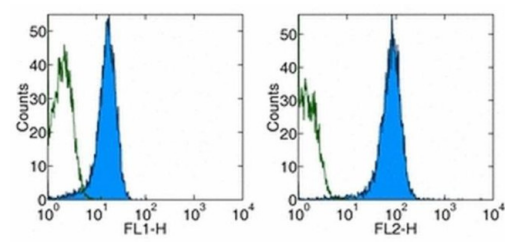
Description: The 390 monoclonal antibody reacts with mouse CD31, also known as platelet-endothelial cell adhesion molecule-1 (PECAM-1) and gpIIa. This 130-140 kDa surface protein is expressed by endothelial cells and at low levels on all leukocytes and platelets. It has been reported that CD38 binds to CD31. Homotypic interaction of CD31 is important in adhesion, cell-cell and cell-matrix interaction, and signal transduction.

Applications Reported: The 390 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 390 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD31 (PECAM-1) Monoclonal Antibody (390), Biotin, eBioscience™



CD31 (PECAM-1) Antibody (13-0311-82) in Flow
Surface staining of mouse splenocytes with Anti-Mouse CD31 (PECAM-1) FITC (left), and PE (right). Autofluorescence is shown via open histogram. Total viable cells were used for analysis.

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Western Blot (2)

Frontiers in cell and developmental biology	Year 2022
Galectin-3 Enhances Vascular Endothelial Growth Factor-A Receptor 2 Activity in the Presence of Vascular Endothelial Growth Factor.	
"Published figure using CD31 (PECAM-1) monoclonal antibody (Product # 13-0311-82) in Western Blot"	
Authors: Cano I,Hu Z,AbuSamra DB,Saint-Geniez M,Ng YSE,Argüeso P,D'Amore PA	

Nature communications	Year 2016
Endothelial to mesenchymal transition is common in atherosclerotic lesions and is associated with plaque instability.	
"Published figure using CD31 (PECAM-1) monoclonal antibody (Product # 13-0311-82) in Flow Cytometry"	
Authors: Evrard SM,Lecce L,Michelis KC,Nomura-Kitabayashi A,Pandey G,Purushothaman KR,d'Escamard V,Li JR,Hadri L,Fujitani K,Moreno PR,Benard L,Rimmele P,Cohain A,Mecham B,Randolph GJ,Nabel EG,Hajjar R,Fuster V,Boehm M,Kovacic JC	

Immunohistochemistry (28)

Journal of clinical and translational research	Year 2022
Platelet aggregation but not activation and degranulation during the acute post-ischemic reperfusion phase in livers with no underlying disease.	
"Published figure using CD31 (PECAM-1) monoclonal antibody (Product # 13-0311-82) in Immunofluorescence"	
Authors: van Golen RF,Stevens KM,Colarusso P,Jaeschke H,Heger M	

Nature communications	Year 2022
Fibroblast activation protein activated antifibrotic peptide delivery attenuates fibrosis in mouse models of liver fibrosis.	
"Published figure using CD31 (PECAM-1) monoclonal antibody (Product # 13-0311-82) in Immunohistochemistry"	
Authors: Lee J,Byun J,Shim G,Oh YK	

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- IHC (P) (1)
- IHC (F) (3)
- ICC/IF (13)
- Flow (95)
- ChIP (1)
- Misc (3)

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