

**DATASHEET**

**CD31 Mouse Monoclonal Antibody(158-2B3)**

CAT. NO. AMA03682

**KEY FEATURES**

Target	CD31	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, and 0.02% sodium azide.	Storage	at-20°C

**BACKGROUND**

Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions under most inflammatory conditions . Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes . Trans-homophilic interaction may play a role in endothelial cell-cell adhesion via cell junctions . Heterophilic interaction with CD177 plays a role in transendothelial migration of neutrophils . Homophilic ligation of PECAM1 prevents macrophage-mediated phagocytosis of neighboring viable leukocytes by transmitting a detachment signal .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IF/ICC	1:50 - 1:200
FC	1:500 - 1:2000

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

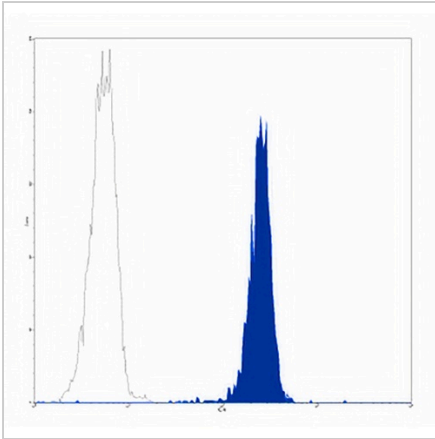
Description	Mouse monoclonal antibody to CD31
Specificity	Recognizes human CD31
Antibody Type	Primary antibody
Immunogen	Native purified human CD31.
Purification	The antibody was purified by affinity chromatography.
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Alternative Names	Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA; PECA1; CD antigen CD31
Gene Symbol	PECAM1
Entrez Gene	5175(Human)
SwissProt	P16284(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Flow cytometric analysis of human peripheral blood platelets using Anti-CD31 Antibody, followed by anti-mouse IgG PE.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.