

Datasheet: TZA1738GA

Description:	MOUSE ANTI HUMAN CD31
Specificity:	CD31
Other names:	PECAM-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rWM59
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain – liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Source	CHO cells
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

**External Database
Links**

UniProt:

[P16284](#) [Related reagents](#)

Entrez Gene:

[5175](#) PECAM1 [Related reagents](#)

Specificity

Mouse anti Human CD31 antibody, clone rWM59, is a recombinant monoclonal antibody that recognizes CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM-1), endoCAM and GPIIA'.

CD31 is a single-pass type I transmembrane glycoprotein belonging to the immunoglobulin superfamily, bearing six Ig-like domains. It is expressed on the surface of endothelial cells, platelets, monocytes, neutrophils, and some types of T-cells. CD31 forms homotypic and heterotypic interactions, including with CD38 and CD117. It is involved in various cellular processes, including the mediation of adhesion and transmigration of leukocytes across the endothelium, angiogenesis, wound healing, inflammation, and thrombosis.

CD31 is used to identify vascular tumors, such as angiosarcoma and hemangioma, and endothelial cells in normal and pathological tissues. CD31 expression is also a marker of endothelial dysfunction and atherosclerosis, and can be modulated by various factors, such as cytokines, shear stress, and hypoxia. Mutations in the PECAM1 gene encoding CD31 can cause platelet-type bleeding disorder 11, a rare condition characterized by mild to moderate bleeding tendency.

Mouse anti Human CD31 antibody, clone rWM59, is derived from clone WM59 ([MCA1738](#)), generated by cloning the variable DNA sequences into expression vectors for recombinant protein expression.

Flow Cytometry

Use 5µl of the suggested working dilution to label 0.5×10^6 cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Acknowledgements

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/TZA1738GA>

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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Printed on 22 May 2026
