

Datasheet: MCA1738FT

Description:	MOUSE ANTI HUMAN CD31:FITC	
Specificity:	CD31	
Other names:	PECAM-1	
Format:	FITC	
Product Type:	Monoclonal Antibody	
Clone:	WM59	
Isotype:	lgG1	
Quantity:	25 μg	

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				Neat

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				
Species Cross Reactivity	Reacts with: Cynomolgus monkey, Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid				
Max Ex/Em	Fluorophore FITC	Excitation Max (nm)	Emission Max (nm	<u>n)</u>	
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant				
Buffer Solution	Phosphate buffere	ed saline			

Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
External Database Links	UniProt: P16284 Related reagents		
	Entrez Gene: <u>5175</u> PECAM1 <u>Related reagents</u>		

RRID

AB_1101908

Specificity

Mouse anti Human CD31 monoclonal antibody, clone WM59 recognizes the human CD31 antigen, a ~130 kDa single pass type I transmembrane glycoprotein bearing six C2 immunoglobulin domains. CD31 is expressed by all continuous endothelia including arteries, veins and non-sinusoidal capillaries, platelets,granulocytes and some lymphocytes. CD31 is not expressed by discontinuous endothelia such as hepatic sinusoids and splenic red pulp (Muller et al. 1989).CD31 is also known as PECAM-1.

The binding epitope for mouse anti human CD31, clone WM59 has been mapped to the Ig-like domain 2 (<u>Fawcett et al. 1995</u>).

Flow Cytometry

Use 10 μ l of the suggested working dilution to label 10 6 cells or 100 μ l whole blood

References

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derived from human embryonic and mesenchymal stem cells. <u>Biomed Rep. 3 (5):</u> 626-636.

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Further Reading

1. DeLisser, H.M. *et al.* (1994) Molecular and functional aspects of PECAM-1/CD31. Immunol Today. 15 (10): 490-5.

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. This product is photosensitive and should be protected from light.

 Guarantee
 12 months from date of despatch

 Health And Safety Information
 Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1738FT

 Regulatory
 For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

 $\textbf{Email: antibody_sales_us@bio-rad.com} \\ \textbf{Email: antibody_sales_uk@bio-rad.com} \\ \textbf{Email: antibody_sales_uk@b$

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M411268:221102'

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