

# Datasheet: MCA4633F BATCH NUMBER 165863

Description:	escription: MOUSE ANTI RAT CD106:FITC			
Specificity:	CD106			
Other names:	VCAM-1			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	MR106			
Isotype:	lgG1			
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat - 1/5

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.

arget Species					
	Rat				
roduct Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm		
	FITC	490	525		
	D :::				
paration	Purified IgG prepared supernatant  Phosphate buffered s	d by affinity chromatogi	raphy on Protein G		

Concentrations					
Immunogen	Rat CD106-transfected L5178Y cells.				
External Database Links	UniProt: P29534 Related reagents				
	Entrez Gene:				
	25361 Vcam1 Related reagents				
Synonyms	Vcam-1				
RRID	AB_1658107				
Specificity	Mouse anti Rat CD106 antibody, clone MR106 recognizes rat CD106, otherwise known as VCAM-1 (vascular adhesion molecule 1), a 110kDa inducible type I transmembrane glycoprotein and member of the immunoglobulin supergene family, which is predominantly expressed on vascular endothelium, and also on bone marrow stromal cells, follicular dendritic cells and some macrophages.				
	CD106 interacts with the lymphocyte homing receptor VLA-4 (alpha4 beta1 integrin) and LPAM-1 (alpha4 beta7 integrin) and mediates leucocyte-endothelial cell adhesion and signal transduction. Expression of CD106 is upregulated following cytokine activation, and endothelial CD106 plays a role in the extravasation of leucocytes from blood vessels during inflammation.				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.				
References	1. Miyao, N. <i>et al.</i> (2006) Various adhesion molecules impair microvascular leukocyte kinetics in ventilator-induced lung injury. <u>Am J Physiol Lung Cell Mol Physiol. 290 (6): L1059-68.</u>				
	2. Kubota, H. <i>et al.</i> (2007) Identification and characterization of vitamin A-storing cells in fetal liver: implications for functional importance of hepatic stellate cells in liver development and hematopoiesis. <u>Stem Cells. 25 (9): 2339-49.</u>				
Further Reading	1. Bevilacqua, M.P. (1993) Endothelial-leukocyte adhesion molecules. <u>Annu Rev Immunol.</u> 11: 767-804.				
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				

protected from light.

Guarantee

12 months from date of despatch

frost-free freezers is not recommended. This product is photosensitive and should be

**Health And Safety** Material Safety Datasheet documentation #10041 available at:

Information https://www.bio-rad-antibodies.com/SDS/MCA4633F

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**Regulatory** For research purposes only

#### **Related Products**

### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M385848:210513'

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