

Datasheet: MCA4633F BATCH NUMBER 151560

Description:	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 www.bio-rad-antibodies.com/protocols.

	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.

Target Species	Rat		
Product Form	Purified IgG conjuga	ted to Fluorescein Isoth	niocyanate Isomer
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nn
	FITC	490	525
reparation	Purified IgG prepare supernatant	d by affinity chromatog	raphy on Protein G
fer Solution	Phosphate buffered	saline	
servative	0.09% Sodium Azide	e (NaN ₃)	
. 1. 111			
bilisers	1% Bovine Serum A	lbumin	

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 ⁶ cells in 100ul.				
References	 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> 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. Stem Cells. 25 (9): 2339-49.				
Further Reading	Bevilacqua, M.P. (1993) Endothelial-leukocyte adhesion molecules. <u>Annu Rev Immunol</u> 11: 767-804.				
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.				

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

12 months from date of despatch

Guarantee

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

10041

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 'M367735:200529'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint