

Datasheet: MCA2297PET

Description:	RAT ANTI MOUSE CD106:RPE
Specificity:	CD106
Other names:	VCAM-1
Format:	RPE
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody MVCAM A (429)
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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 - 1/10

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse					
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized					
Reconstitution	Reconstitute in 0.25 ml disilled water					
Max Ex/Em	Fluorophore Excitation Max (nm) Emission Max (nm)					
	RPE 488nm laser	496	578			
Buffer Solution	Phosphate buffered s	saline				
Preservative	0.09% Sodium Azide	•				
Stabilisers	1% Bovine Serum	n Albumin				
	5% Sucrose					
Immunogen	Stromal cell line PA6	i.				
External Database						

External Database Links

UniProt:

P29533 Related reagents

Entrez Gene:

22329 Vcam1 Related reagents

	ZZ3Z9 VCaIIII Related reagents
Synonyms	Vcam-1
Fusion Partners	Spleen cells from immunised Lewis rats were fused with cells of the mouse P3X63Ag8.653 myeloma cell line.
Specificity	Rat anti Mouse CD106 antibody, clone MVCAM A (429) recognizes murine vascular adhesion molecule 1 (VCAM-1), a cell surface glycoprotein that is also known as CD106. CD106 is expressed predominantly on endothelial cells and expression is up-regulated during inflammation. The ligand for CD106 is the alpha 4 subunit (CD49d) of the integrin VLA-4 (CD49d/CD29).
	Rat anti Mouse CD106 antibody, clone MVCAM A (429) is reported to partially block VCAM-1 mediated functions (Kinashi and Springer 1994).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).
References	1. Kinashi, T. and Springer, T.A. (1994) Adhesion molecules in hematopoietic cells. <u>Blood Cells.</u> <u>20:25-44.</u>
	2. Wormley, F.L. Jr et al. (2001) Cell adhesion molecule and lymphocyte activation marker
	expression during experimental vaginal candidiasis. Infect Immun. 69 (8): 5072-9.
	3. Woo, J.M. et al. (2010) Treatment with apolipoprotein A-1 mimetic peptide reduces lupus-like
	manifestations in a murine lupus model of accelerated atherosclerosis. <u>Arthritis Res Ther.</u> <u>12(3):R93.</u>

- 4. Hall, L.J. *et al.* (2010) Probing local innate immune responses after mucosal immunisation. <u>J</u> Immune Based Ther Vaccines. 8: 5.
- 5. Winnik S *et al.* (2011) Dietary α -linolenic acid diminishes experimental atherogenesis and restricts T cell-driven inflammation. Eur Heart J. 32 (20): 2573-84.
- 6. Hamada, T. *et al.* (2009) Inducible nitric oxide synthase deficiency impairs matrix metalloproteinase-9 activity and disrupts leukocyte migration in hepatic ischemia/reperfusion injury. Am J Pathol. 174: 2265-77.
- 7. Hamada, T. *et al.* (2008) Metalloproteinase-9 deficiency protects against hepatic ischemia/reperfusion injury. <u>Hepatology. 47: 186-98.</u>
- 8. Baumer, Y. *et al.* (2011) Telomerase-based immortalization modifies the angiogenic/inflammatory responses of human coronary artery endothelial cells. <u>Exp Biol Med (Maywood)</u>. 236: 692-700.
- 9. Lau,. H.Y. and Bhatia, M. (2007) Effect of CP-96,345 on the expression of adhesion molecules in acute pancreatitis in mice. <u>Am J Physiol Gastrointest Liver Physiol. 292: G1283-92.</u>
- 10. Kumpers, P. *et al.* (2011) The synthetic tie2 agonist peptide vasculotide protects against vascular leakage and reduces mortality in murine abdominal sepsis. <u>Crit Care. 15 (5): R261.</u>
- 11. Püntener, U. *et al.* (2012) Long-term impact of systemic bacterial infection on the cerebral vasculature and microglia. <u>J Neuroinflammation</u>. 9: 146.
- 12. David, S. *et al.* (2011) Acute administration of recombinant Angiopoietin-1 ameliorates multiple-organ dysfunction syndrome and improves survival in murine sepsis. <u>Cytokine. 55 (2): 251-9.</u>
- 13. Kuriyama, N. *et al.* (2011) Tenascin-C: a novel mediator of hepatic ischemia and reperfusion injury. Hepatology. 54 (6): 2125-36.
- 14. Braach, N. *et al.* (2014) RAGE controls activation and anti-inflammatory signalling of protein C. PLoS One. 9 (2): e89422.

15. Li, M. et al. (2014) The indoleamine 2,3-dioxygenase pathway controls complement-dependent enhancement of chemo-radiation therapy against murine glioblastoma. J Immunother Cancer. 2: 21.

Storage Store at +4°C.

DO NOT FREEZE

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 12 months from date of reconstitution. **Health And Safety** Material Safety Datasheet documentation #10075 available at: Information 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf Regulatory For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)

America

North & South Tel: +1 800 265 7376

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Email: antibody_sales_us@bio-rad.com

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'M323606:180727'

Printed on 06 Dec 2018

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