

## Datasheet: MCA2237PE

<b>Description:</b>	MOUSE ANTI HUMAN CD106:RPE
<b>Specificity:</b>	CD106
<b>Other names:</b>	VCAM-1
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	STA
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

### 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](http://www.bio-rad-antibodies.com/protocols).

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

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1.0 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1%	Bovine Serum Albumin	
	5%	Sucrose	

<b>Immunogen</b>	Cells of the DS6 T-cell line.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P19320</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7412</a> VCAM1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	L1CAM
<b>RRID</b>	AB_324742
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the NS-1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD106 antibody, clone STA</b> recognizes human CD106, a ~110 kDa cell surface protein predominantly expressed on activated vascular endothelium. CD106, also known as vascular cell adhesion molecule 1 (VCAM-1), is also expressed by several non-endothelial cell types including some macrophages, follicular dendritic cells and bone marrow, stromal cells.</p> <p>CD106 binds the integrins alpha4 beta1 and alpha4 beta7 and mediates leucocyte-endothelial cell adhesion.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Leca, G. <i>et al.</i> (1995) Expression of VCAM-1 (CD106) by a subset of TCR gamma delta-bearing lymphocyte clones. Involvement of a metalloprotease in the specific hydrolytic release of the soluble isoform. <a href="#">J Immunol. 154 (3): 1069-77.</a></li> <li>2. Perdomo-Arciniegas, A-M. &amp; Vernet, J-P. (2011) Co-culture of hematopoietic stem cells with mesenchymal stem cells increases VCAM-1-dependent migration of primitive hematopoietic stem cells. <a href="#">Int J Hematol. 94 (6): 525-32.</a></li> <li>3. van Beijnum, J.R. <i>et al.</i> (2008) Angiogenic profiling and comparison of immortalized endothelial cells for functional genomics. <a href="#">Exp Cell Res. 314 (2): 264-72.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: 20487: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf</a>

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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

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